

## BEST AVAILABLE COPY

1 1 1	MNFETSRCATLQYCPDPYIQRFIETPAHFSWKESYYRSAU	Ηυ p53 Ηυ p73β Ηυ p63γ Μυ p63γ
4 2 2 4 1	POSIDES DE LOS DELOS DELO	Ηυ p53 Ηυ p73β Ηυ p63γ Μυ p63γ
3 5 3 1 4 0 7 9	POSSRGNNEVVGGTDSS-MDVFHMEG-MTTSVMAQFNL- EPSEDGATNKIEISMDCIRMODSDMSDPMWPGYTNLG EPSENGATNKIEISMDCIRMODSDMSDPMWPGYTNLG	Hu p53 Hu p73β Hu p63γ Mu p63γ
6 1 6 8 7 7 1 1 6	LSSTNDOMSSRAVSASPY-TEHAM-SVET-HSBYA LLNSMDOOIONGSSSTSPYNT-DHONSV-TASSYA LLNSMDOOIONGSSSTSPYNT-DHONSV-TASSYA	Hu p53 Hu p73β Hu p63γ Mu p63γ
90 101 112 151	Q	Hu p53 Hu p73β Hu p63γ Mu p63γ
121 139 150 189	SAPWRYSTERK LYEOING BIGIKWMTP QCAVICAN SAPWRYSTERK LYEOING BIGIKWMTP QCAVICAN SAPWRYSTERK LYEOING BIGIKWMTP QCAVICAN	Hu p53 Hu p73β Hu p63γ Mu p63γ
161 179 190 229	PV/GKAEHVED/VKRGENHEELGEDFNEGOB/ASHOOF PV/GKAEHVEEV/KREENHEELSREFNEGOI/ABSHOOF PV/GKAEHVEEV/KREENHEELSREFNEGOI/ABSHOOF PV/GKAEHVEEV/KREENHEELSREFNEGOI/ABSHOOF PV/GKAEHVEEV/KREENHEELSREFNEGOI/ABSHOOF PV/GKAEHVEEV/KREENHEELSREFNEGOI/ABSHOOF PV/GKAEHVEEV/GKREENHEELSREFNEGOI/ABSHOOF PV/GKAEHVEEV/GKREENHEELSREFNEGOI/ABSHOOF PV/GKAEHVEEV/GKREENHEELSREFNEGOI/ABSHOOF PV/GKAEHVEEV/GKREENHEELSREFNEGOI/ABSHOOF PV/GKAEHVEEV/GKREENHEELSREFNEGOI/ABSHOOF PV/GKAEHVEEV/GKREENHEELSREENHEGOI/ABSHOOF PV/GKAEHVEEV/GKREENHEELSREENHEGOI/ABSHOOF PV/GKAEHVEEV/GKREENHEELSREENHEGOI/ABSHOOF PV/GKAEHVEEV/GKREENHEELSREENHEGOI/ABSHOOF PV/GKAEHVEEV/GKREENHEELSREENHEGOI/ABSHOOF PV/GKAEHVEEV/GKREENHEELSREENHEGOI/ABSHOOF PV/GKAEHVEEV/GKREENHEELSREE	Hu p53 Hu p73β Hu p63γ Mu p63γ
199 219 230 269	CNUNLSO PRINTERIES VA VENER DE VISSO COMPANIA VA	Hu p53 Hu p73β Hu p63γ Mu p63γ
239 259 270 309	NO COMPONENT OF THE PROPERTY O	Hu p53 Hu p73β Hu p63γ Mu p63γ
279 299 310 349	GROWN CONTRACTOR OF THE PROPERTY OF THE PROPER	Hu p53 Hu p73β Hu p63γ Mu p63γ
311 333 342 377	N SSP OF KKEP DEEV TO LIGHT WITH THE SPPAYPALGAGYKER HIGH EDTYY OVER ROME ILMKE NTHGIONS IKKERSPDDELLY PV RESTY MLLKINTHGIONS IKKERSPDDELLY PV RESTY MLLKINTHGIONS IKKERSPDDELLY PV RESTY MLLKI	Hu p53 Hu p73β Hu p63γ Mu p63γ
3 4 5 3 7 2 3 7 9 4 1 4	MONONONO PEGSIONO NEISSIONS AND SERVICE SINCE SINCE SINCE SERVICE SINCE SINCE SINCE SERVICE SINCE SERVICE SINCE SERVICE SER	Hu p53 Hu p73β Hu p63γ Mu p63γ
372 407 417 452	YGPVLSPMNKVHGGMKKEPSVNOLVGOPPPHSSAATPN FRNELVEPRRETPKOSDVFFRHSKPPNRSVYP FRNELVEPRGEAPTOSDVFFRHSNPPNHSVYPZ	Hu p53 Hu p73β Hu p63γ Mu p63γ
3 9 3 4 4 5 4 4 8 4 8 4	LGPVGPGMLNNHGHAVPANGEMSSSHSAQSMVSGSHCTPP	Hu p53 Hu p73β Hu p63γ Mu p63γ
3 9 3 4 8 5 4 4 8 4 8 4	PPYHADPSLVRTWGP	Hu p53 Hu p73β Hu p63γ Mu p63γ



120 52

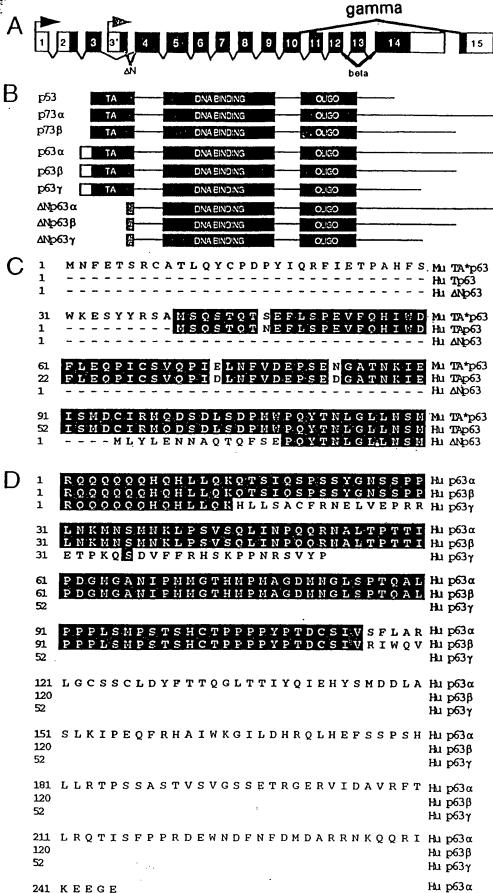


Figure 2

Ни р63В

Hu p63y



Figure 3

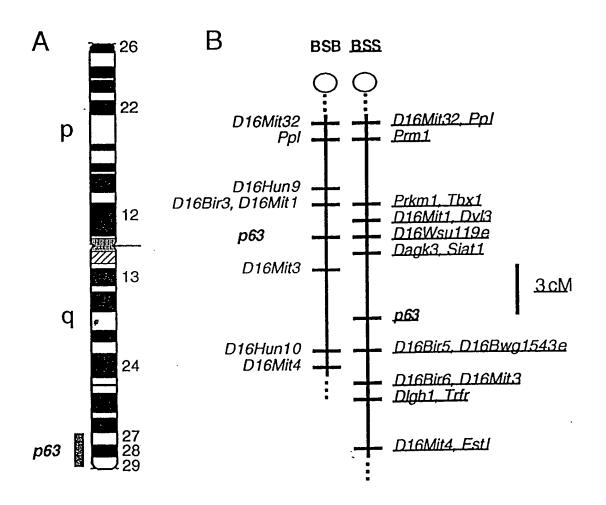




Figure 4

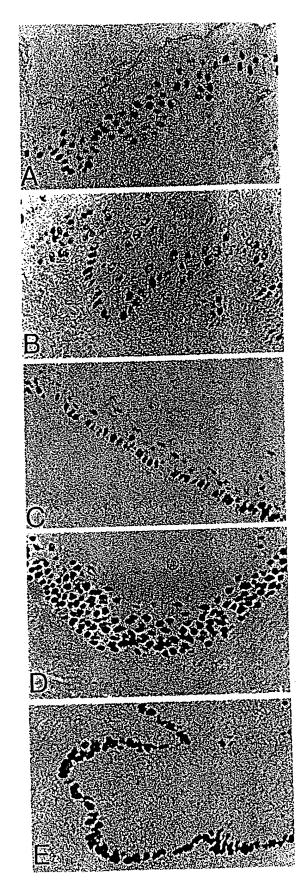
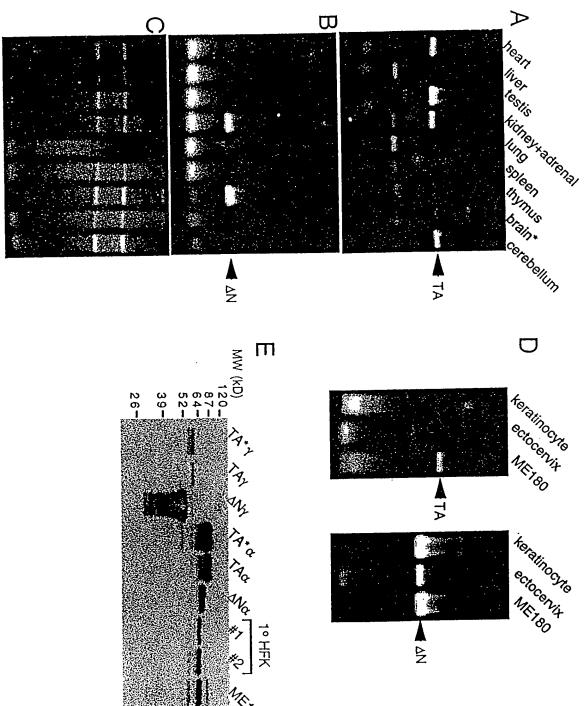




Figure 5





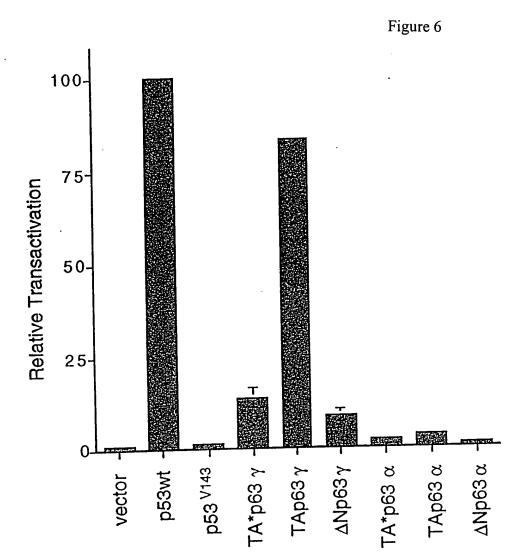




Figure 7

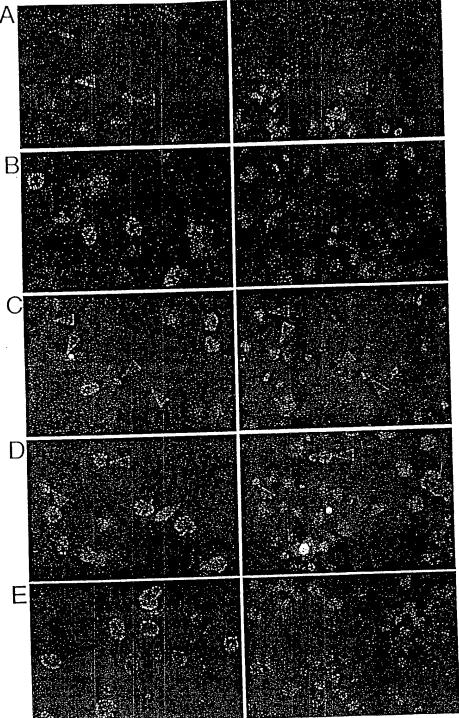
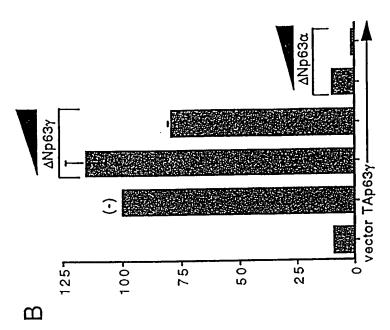
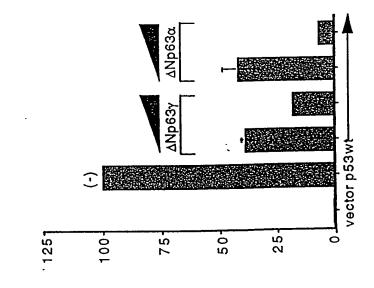




Figure 8







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		cc	CAG	AGC	λCA	CAG	ACA	AAT	GAA	TTC			CCY	GAG	GTT	TTC	CAG	CAT	ATC	TGG
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#### Figure 9 Cont.

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1231/411
CAG CAG CAG CAG CAC TTA CTT CAG AAA CAG ACC TCA ATA CAG TCT CCA TCT TCA TAT
Q Q Q H Q H L L Q K Q T S I Q S P S S Y
                                  1291/431
1261/421
GGT AAC AGC TCC CCA CCT CTG AAC AAA ATG AAC AGG ATG AAC AAG CTG CCT TCT GTG AGC
G N S S P P L N K M N S M N K L P S V S
                                  1351/451
CAG CTT ATC AAC CCT CAG CAG CGC AAC GCC CTC ACT CCT ACA ACC ATT CCT GAT GGC ATG
Q L I N P Q Q R N A L T P T T I P D G M
                                  1411/471
1381/461
CGA GCC AAC ATT CCC ATG ATG GGC ACC CAC ATG CCA ATG GCT GGA GAC ATG AAT GGA CTC
G A N I P M M G T H M P M A G D M N G L
1441/481
                                   1471/491
AGO COO ACO CAG GOA CTO COT COO COA CTO TOO ATG COA TOO ACO TOO CAO TGO ACA COO
SPTQALPPPLSMPS
                                   1531/511
CCA CCT CCG TAT CCC ACA GAT TGC AGC ATT GTC AGT TTC TTA GCG AGG TTG GGC TGT TCA
PPPYPTDCSIVSFLARLGCS
1561/521
                                  1591/531
TCA TGT CTG GAC TAT TTC ACG ACC CAG GGG CTG ACC ACC ATC TAT CAG ATT GAG CAT TAC
 \begin{smallmatrix} \mathsf{S} & \mathsf{C} & \mathsf{L} & \mathsf{D} & \mathsf{Y} & \mathsf{F} & \mathsf{T} & \mathsf{T} & \mathsf{Q} & \mathsf{G} & \mathsf{L} & \mathsf{T} & \mathsf{I} & \mathsf{Y} & \mathsf{Q} & \mathsf{I} & \mathsf{E} & \mathsf{H} & \mathsf{Y} \\ \end{smallmatrix} 
                                  1651/551
TCC ATG GAT GAT CTG GCA AGT CTG AAA ATC CCT GAG CAA TTT CGA CAT GCG ATC TGG AAG
S M D D L A S L K I P E Q F R H A I W K
1681/561
                                  1711/571
GGC ATC CTG GAC CAC CGG CAG CTC CAC GAA TTC TCC TCC CCT TCT CAT CTC CTG CGG ACC
G I L D H R Q L H E F S S P S H L L R T
                                  1771/591
CCA AGC AGT GCC TCT ACA GTC AGT GTG GGC TCC AGT GAG ACC CGG GGT GAG CGT GTT ATT
P S S A S T V S V G S S E T R G E R V
1801/601
                                  1831/611
GAT GCT GTG CGA TTC ACC CTC CGC CAG ACC ATC TCT TTC CCA CCC CGA GAT GAG TGG AAT
DAVRFTLRQTISFP
                                               PRDEWN
1861/621
                                  1891/631
GAC TTC AAC TIT GAC ATG GAT GCT CGC CGC AAT AAG CAA CAG CGC ATC AAA GAG GAG GGG
D F N F D M D A R R N K Q Q R I K E E G
1921/641
GAG TGA
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1/1 31/11 ATG TCC CAG AGC ACA CAG ACA AAT GAA TTC CTC AGT CCA GAG GTT TTC CAG CAT ATC TGG M S Q S T Q T N E F L S P E V F Q H I W 61/21 91/31 GAT TIT CTG GAA CAG CCT ATA TGT TCA GTT CAG CCC ATT GAC TIG AAC TIT GTG GAT GAA D F L E Q P I C S V Q P I D L N F V D E CCA TCA GAA GAT GGT GGG ACA AAC AAG ATT GAG ATT AGC ATG GAC TGT ATC CGC ATG CAG P S E D G A T N K I E I S M D C I R M Q 181/61 211/71 GAC TCG GAC CTG AGT GAC CCC ATG TGG CCA CAG TAC ACG AAC CTG GGG CTC CTG AAC AGC D S D L S D P M W P Q Y T N L G L L N S 271/91 ATG GAC CAG CAG ATT CAG AAC GGC TCC TCG TCC ACC AGT CCC TAT AAC ACA GAC CAC GCG M D Q Q I Q N G S S S T S P Y N T D H A 301/101 331/111 CAG AAC AGC GTC ACG GCG CCC TCG CCC TAC GCA CAG CCC AGC TCC ACC TTC GAT GCT CTC 361/121 391/131 TCT CCA TCA CCC GCC ATC CCC TCC AAC ACC GAC TAC CCA GGC CCG CAC AGT TTC GAC GTG SPSPAIPSNTDYPGPHSFDV 421/141 451/151 TCC TTC CAG CAG TCG AGC ACC GCC AAG TCG GCC ACC TGG ACG TAT TCC ACT GAA CTG AAG SFQQSSTAKSATWTYSTELK 481/161 511/171 AAA CTC TAC TGC CAA ATT GCA AAG ACA TGC CCC ATC CAG ATC AAG GTG ATG ACC CCA CCT K L Y C Q I A K T C P I Q I K V M T P P 571/191 CCT CAG GGA GCT GTT ATC CGC GCC ATG CCT GTC TAC AAA AAA GCT GAG CAC GTC ACG GAG PQGAVIRAMPVYKKAEHVT 601/201 631/211 GTG GTG AAG CGG TGC CCC AAC CAT GAG CTG AGC CGT GAA TTC AAC GAG GGA CAG ATT GCC V V K R C P N H E L S R E F N E G Q I A 661/221 691/231 CCT CCT AGT CAT TTG ATT CGA GTA GAG GGG AAC AGC CAT GCC CAG TAT GTA GAA GAT CCC PPSHLIRVEGNSHAQYVEDP 751/251 ATC ACA GGA AGA CAG AOT GTG CTG GTA CCT TAT GAG CCA CCC CAG GTT GGC ACT GAA TTC I T G R Q S V L V P Y E P P Q V G T E F 781/261 811/271 ACG ACA GTC TTG TAC AAT TTC ATG TGT AAC AGC AGT TGT GTT GGA GGG ATG AAC CGC CGL T T V L Y N F M C N S S C V G G M N R R 871/291 CCa att ith atc att git act cig gaa acc aga gat eeg caa otc cig eec cga cec tec PILIIVTLETRDGQVLGRR 901/301 931/311 TTT GAG GCC CGG ATC TGT GCT TGC CCA GGA AGA GAC AGG AAG GCG GAT GAA GAT AGC ATC F E A R I C A C P G R D R K A D E D S 991/331 AGA AAG CAG CAA GTT TCG GAC AGT ACA AAG AAC GGT GAT GGT ACG AAG CGC CCG TTT CGT RKQQVSDSTKNGDGTKRPF 1021/341 1051/351 CAG AAC ACA CAT GGT ATC CAG ATG ACA TCC ATC AAG AAA CGA AGA TCC CCA GAT GAT GAA Q N T H G I Q M T S I K K R R S P D D E 1111/371 CTG TTA TAC TTA CCA GTG AGG GGC CGT GAG ACT TAT GAA ATG CTG TTG AAG ATC AAA GAG LLYLPVRGRETYEMLLKIK 1141/381 1171/391 TCC CTG GAA CTC ATG CAG TAC CTT CCT CAG CAC ACA ATT GAA ACG TAC AGG CAA CAG CAA S L E L M Q Y L P Q H T I E T Y R Q Q Q



#### Figure 10 Cont.

1201	1/401	Ļ								123	1/411	L							
CAG	CAG	CAG	CAC	CAG	CAC	$TT\lambda$	CTT	CAG	AAA	CAG	ACC	TCA	$\Lambda T A$	CAG	TCT	CCA	TCT	TCA	TAT
Q	Q	Q	Н	Q	H	L	L	Q	K	Q	T	S	I	Q	S	P	S	S	Y
126	1/423	L								129	1/431	l							
CGT	AAC	AGC	TCC	CCA	CCT	CTG	AAC	AAA	ATG	AAC	AGC	ATG	AAC	AAG	CTG	CCT	TCT	ac	AGC
G	N	S	S	P	P	L	N	K	M	N	S	M	N	K	L	P	S	ν	S
132	1/44	1								135	1/45]	Į.							
CAG	CTT	ATC	AAC	CCT	CAG	CAG	CGC	AAC	GCC	CTC	ACT	CCT	ACA	ACC	ATT	CCT	GAT	GGC	ХTG
Q	L	I	N	P	Q	Q	R	N	$\mathbf{A}$ .	L	T	P	T	T	I	P	D	G	M
138	1/46	1								141	1/471	1							
											-/ -/ /	_							
GGA	GCC	AAC	ATT	ccc	ATG	ATG	GGC	ACC	CAC				GCT	GGA	GAC	ATG	AAT	GGA	CTC
GGA O	GCC A	AAC N		CCC P	atg M	atg M	GGC G		CAC H		CCA		GCT A	GGA G	gac D	atg M	TAA N	GGA G	CTC L
G 144	A 1/46	N 1	I	P	M	M	G	T	H	ATG M 147	CCA p 1/491	atg M L	Α	G	D	M	N	G	L
G 144	A 1/46	N 1	I	P	M	M	G	T	H	ATG M 147	CCA p 1/491	atg M L	Α	_	D TCC	M CAC	N	G	CCC
G 144	A 1/46	N 1	I CAG	P	M CTC	M	G	T CCA	H	ATG M 147	CCA p L/491 ATG	atg M L	Α	G	D	M	N	G	L
G 144 AGC S	A 1/46: CCC	N 1 ACC T	I CAG	P GCA	M CTC	M CCT	G CCC	T CCA	H CTC	ATG M 147 TCC 5	CCA p L/491 ATG	ATG M L CCA P	A TCC	G ACC	D TCC	M CAC	N TGC	G	CCC
G 144 AGC S 150	A 1/46 CCC P 1/50	N 1 ACC T 1	I CAG Q	P GCA A	M CTC L	M CCT P	b CCC C	T CCA P	H CTC L	ATG M 147: TCC 5 153:	CCA p 1/491 ATG M 1/511	ATG M L CCA P L	A TCC S	G ACC	D TCC S	M CAC H	N TGC	G	CCC



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1/1 ATG TCC	CAG	ACC	ACA	CAG	ACA	ልልጥ	GAA	TTC			CCA	GAG	GTT	TTC	CAG	CAT	ATC	TGG
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D F	L	E	Q	P	I	С	S		Q	P	I	D	L	N	F	V	D	E
121/41									151/			<b>_</b>			<b>&gt;</b>	~~~	B 1777	CAC
CCA TCA								TTA	GAG	ATT	AGC	ATG	GAC	TGT	I	R	M	Q
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241/81	,		-	_	•	••	••	•	271/			_						
ATG GAC	CAG	CAG	ATT	CAG	AAC	GGC	TCC	TCG	TCC	ACC	AGT	CCC	TAT	AAC	ACA	GAC	CAC	GCG
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CAG AAC														ACC	TIC	D	A A	L
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361/121 TCT CCA	mo n	~~	CCC	3 mg	000	mcc.	אאר	NCC.		131 TAC	CCA	ccc	αG	CAC	AGT	TTC	GAC	GTG
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	Q	Q	s	S	T	A	ĸ	S	Α		W	T	Y	S	T	E	L	K
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AAA CTC																ACC T	CCA P	P
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541/181 CCT CAG		CCT	COTO	λTY	ccc	ccc	בעדע	CCT				ала	CC TH	GAG	CAC	GTC	ACG	GAG
P O		A		I	R	A	M	p	V V				A		Н	v	T	E
601/201			•	•	• `	••	••	•		/211	••	•-						
GTG GTG		CGG	TGC	CCC	AAC	CAT	GAG	CTG	AGC	CGT	GAA	TTC	AAC	GAG	GGA	CAG	ATT	CCC
v v	ĸ	R	Ç	P	N	H	Ε	L	S		E	F	N	E	G	Q	I	A
661/221										/231						^**	a	
CCT CCT														Y	GIA V	GAA E	D	P
P P 721/241	S	н	L	I	P.	v	E	G	N 751	s /251	н	A	V	1	٧			•
ATC ACA		AGA	CAG	AGT	GTG.	CTG	GTA	CCT			CCA	ccc	CAG	GTT	GGC	ACT	GAA	TTC
	G	R	Q	s	v	L	v	P	Y	E		P		ν	G	T	E	F
781/261										/271								
ACG ACA																		
T T	-	L	Y	N	F	M	С	N	_	_	С	V	G .	G	M	И	R	R
841/281 CCa aTT		አተየሩ	) mm	CTT	3 (70)	~~~	C	200		/291 Chm	000	CAA	CTC.	CTC:	ccc	CCA	ccc	TCC
P I	L	I		V	T	L	E	T					v			R		C
901/301		_	_	•	•	_	ב	•		/311	•	×	•	_	•			
TTT GAG		CGG	ATC	TGT	GCT	TGC	CCA	GGA	AGA	GAC	AGG	AAG	GCG	GAT	GAA	GAT	AGC	ATC
F E	A	R	I	C	A	С	P	G	R	D	R	K	A	D	E	D	S	
961/321										/331								
AGA AAG									AAC	GGT	GAT	COT	ACG	AAG	CCC	cce	TTT	
R K 1021/34		Q.	ν	S	D	S	T	K				G	T	K	R	P	F	R
CAG AAC		СЪТ	CCT	λTY	CAC	አጥግ	) C 2	WYY		1/35		CC)	) ACA	ጥርር	CC.7	GΑT	CAT	aao
Q N			G			M							R				D	E
1081/36			-	_	ĸ	••	•	_		1/37				_	-	-	_	_
CTG TT		TTA	CCA	GTG	AGG	GGC	CGT	GAG				ATG	CTG	TTG	AAG	ATC	AAA	GAG
r r	Y		P						T	Y	E		L		ĸ	I	K	E
1141/38									TT1	7/33	1							
TCC CTC		_															_	_
S L	E	L	М	Q	Y	L	P	Q	H.	T .	I	E	T	¥	JK.	Q	Q	Q



#### Figure 11 Cont.

1201/401

CAG CAG CAG CAC CAG CAC TTA CTT CAG AAA CAT CTC CTT TCA GCC TGC TTC AGG AAT GAG
Q Q Q H Q H L L Q K H L L G AA CCT CTC TTC TCA GCC TGC TTC AGG AAT GAG
1291/431

CTT GTG GAG CCC CGG AGA GAA ACT CCA AAA CAA TCT GAC GTC TTC TTT AGA CAT TCC AAG
L V E P R R E T P K Q S D V F F R H S K
1321/441

CCC CCA AAC CGA TCA GTG TAC CCA TAG
P P N P S V Y P \*



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31/11
ATG TTG TAC CTG GAA AAC AAT GCC CAG ACT CAA TTT AGT GAG CCA CAG TAC ACG AAC CTG
M L Y L E N N A Q T Q F S E P Q Y T N L
                              91/31
GGG CTC CTG AAC AGC ATG GAC CAG CAG ATT CAG AAC GGC TCC TCG TCC ACC AGT CCC TAT
G L L N S M D Q Q I Q N G S S T S P
                               151/51
AAC ACA GAC CAC GCG CAG AAC AGC GTC ACG GCG CCC TCG CCC TAC GCA CAG CCC AGC TCC
N T D H A Q N S V T A P S P Y A Q P
                               211/71
ACC TTC GAT GCT CTC TCT CCA TCA CCC GCC ATC CCC TCC AAC ACC GAC TAC CCA GGC CCG
T F D A L S P S P A I P S N T D Y P G
                               271/91
CAC AGT TTC GAC GTG TCC TTC CAG CAG TCG AGC ACC GCC AAG TCG GCC ACC TGG ACG TAT
241/81
                              S T A K S A T W T Y
H S F D V S F Q Q S
                               331/111
TCC ACT GAA CTG AAG AAA CTC TAC TGC CAA ATT GCA AAG ACA TGC CCC ATC CAG ATC AAG
301/101
S T E L K K L Y C Q I A K T C P I Q I K
                               391/131
GTG ATG ACC CCA CCT CCT CAG GGA GCT GTT ATC CGC GCC ATG CCT GTC TAC AAA AAA GCT
361/121
V M T P P P Q G A V I R A M P V Y K K A
                               451/151
GAG CAC GTC ACG GAG GTG GTG AAG CGG TGC CCC AAC CAT GAG CTG AGC CGT GAA TTC AAC
E H V T E V V K R C P N H E L S R E F
                               511/171
GAG GGA CAG ATT GCC CCT CCT AGT CAT TTG ATT CGA GTA GAG GGG AAC AGC CAT GCC CAG
481/161
EGQIAPPSHLIRVEGNSHAQ
                               571/191
541/191
TAT GTA GAA GAT CCC ATC ACA GGA AGA CAG AGT GTG CTG GTA CCT TAT GAG CCA CCC CAG
Y V E D P I T G R Q S V L V P Y E P
                               631/211
GTT GGC ACT GAA TTC ACG ACA GTC TTG TAC AAT TTC ATG TGT AAC AGC AGT TGT GGA
V G T E F T T V L Y N F M C N S S C V G
                               691/231
 661/221
GGG ATG AAC CGC CGE CCa aTT TTA ATC ATT GTT ACT CTG GAA ACC AGA GAT GGG CAA GTC
 G M N R R P I L I I V T L E T R D G Q V
                               751/251
 CTG GGC CGA CGC TGC TTT GAG GCC CGG ATC TGT GCT TGC CCA GGA AGA GAC AGG AAG GCG
 L G R R C F E A R I C A C P G R D R K A
                               811/271
 781/261
 GAT GAA GAT AGC ATC AGA AAG CAG CAA GIT TCG GAC AGT ACA AAG AAC GGT GAT GGT ACG
 D E D S I R K Q Q V S D S T K N G D G T
                               871/291
 841/281
 AAG CGC CCG TTT CGT CAG AAC ACA CAT GGT ATC CAG ATG ACA TCC ATC AAG AAA CGA AGA
 K R P F R Q N T H G I Q M T S I K K R R
                               931/311
 901/301
 TCC CCA GAT GAT GAA CTG TTA TAC TTA CCA GTG AGG GGC CGT GAG ACT TAT GAA ATG CTG
 S P D D E L L Y L P V R G R E T Y E M L
                               991/331
 961/321
 TTG AAG ATC AAA GAG TCC CTG GAA CTC ATG CAG TAC CTT CCT CAG CAC ACA ATT GAA ACG
 LKIKESLELMQYLPQHTIET
                                1051/351
 1021/341
 TAC AGG CAA CAG CAA CAG CAG CAG CAC CAG CAC TTA CTT CAG AAA CAG ACC TCA ATA GAG
 Y R Q Q Q Q Q H Q H L L Q K Q T S I Q
                                1111/371
 1081/361
 TCT CCA TCT TCA TAT GGT AAC AGC TCC CCA CCT CTG AAC AAA ATG AAC AGC ATG AAC AAG
 S P S S Y G N S S P P L N K M N S M N K
                                1171/391
 1141/381
 CTG CCT TCT GTG AGC CAG CTT ATC AAC CCT CAG CAG CGC AAC OCC CTC ACT CCT ACA ACC
 L P S V S Q L I N P Q Q R N A L T P T T
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## Figure 12 Cont.

1201	/401										L/411								
ATT	CCT	GAT	GGC	ATG	GGA	GCC	AAC	TTA	CCC	atg	DTG	GGC	VCC	CAC	ATG	CCA	ATG	GCT	GGA
		D							P	M	M	G	T	Н	M	P	M	A	G
1261	./421										[/43]								
GAC	ATG	TAA	GGA	CTC	AGC	CCC	ACC	CAG	GCA	CTC	CCT	CCC	CCA	CTC	TCC	<b>OTA</b>	CCY	TCC	ACC
	M	N		L	S	P	T	Q	Α	ь	P	P	P	L	S	М	Þ	S	T
1321	/44:	L									1/451								
TCC	CAC	TGC	ACA	CCC	CCA	CCT	ccc	TAT	CCC	ACA	GAT	TGC	AGC	ATT	GTC	AGT	TTC	TTA	GCG
	H	С	T	P	P	P	P	Y	P	$\mathbf{T}$		С	S	I	V	S	F	L	A
1383	1/46	1									1/47:								
AGG	TTG	GGC	TGT	TCA	TCA	TGT	CIG	GAC	TAT	TTC	ACG	ACC	CAG	GGG	CIG	УСС	ACC	ATC	TAT
R	L	G	С	S	S	С	L		Y	F	T	T	Q	G	L	T	T	I	Y
144	1/48	1									1/49								
CAG	ATT	GAG	CAT	TAC	TCC	ATG	GAT	GAT	CTG	GCA	AGT	CTG	AAA	ATC	CCT	CAC	CAA	TTT	CGA
Q	I	В	Н	Y	S	M	D	D	L	Α	S	L	K	I	P	E	Q	F	R
150	1/50	1									1/51								
CAT	GCG	ATC	TGG	AAG	GGÇ	ATC	CTG	GAC	CAC	CGG	CAG	CTC	CAC	GAA	TTC	TCC	TCC	CCT	TCT
H	A	I	W	ĸ	G	I	L	D	H	R		L	H	E	F	S	3	P	S
1563	L/52	1									1/53:								
CAT	CTC	CTG	CGG	ACC	CCA	AGC	AGT	CCC	TCT	ACA	GTC	AGT	GTG	GGC	TCC	AGT	GAG	ACC	CGG
H	L	L	R	T	P	S	S	Α	S	Т	٧	S	V	G	S	S	Ε	T	R
	1/54										1/55								
GGT	GAG	CGT	GTT	ATT	GAT	GCT	GTG	CGA	TTC	ACC	CTC	CCC	CAG	ACC		TCT	TTC	CCA	CCC
G	E	R	V	I	D	A	V	R	F	_			Q	T	I	S	F	P	P
	1/56										1/57:								
CGA	gat	GAG	TGG	AAT	GAC	TTC	AAC	TIT	GAC	ATG	GAT	GCT	CGC	CGC	AAT		CAA	CAG	
R	D	E	W	N	D	F	N	F	D	M	D	Α	R	R	И	K	δ	Q	R
174	1/58	1																	
ATC	AAA	GAO	GAG	GGG	GAG	TGA													
I	ĸ	Ε	Ε	G	E	*													



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м	L	Y	L	E	N	N	У	Q	T	Q			E			Ϋ́	T	N	L
61/								•		91/	31								
GGG	CIC	CTG	AAC	AGC	ATG	GAC	CAG	CAG	ATT				TCC	TCG	TCC				TAT
G	L	L	N	s	M	D	Q	Q	I		N	G	S	S	S	T	S	Þ	Y
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		GAT	GCT	CTC	TCT	CCA	TCA	ccc	GCC			TCC	AAC	ACC	GAC	TAC	CCA	GGC	CCG
T	F	D		L	S	P	S	P		I	P			T	D	Y	P	G	P
241										271									
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3617	/121								_		/131								٠.
CTG	ATG	ЯСС	CCA	CCT	CCT	CAG	GGA	GCT	GTT	ATC	CCC	GCC	ATG					AAA	CCT
V	M	T	P	P	P	Q	G	A	V		R	A	M	P	V	¥	K	K	A
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E	H		T		A	V	K	R	C	P	AAC N			L	S	R	E	F	AAC N
	/161	•	•	-	•	•	**		•	_	/171	••		2	~	•`	_	•	••
GAG	GGA	CAG	ATT	GCC	CCT	CCT	AGT	САТ	TTG			GTA	GAG	GGG	AAC	AGC	CAT	GCC	CAG
E	-	Q	I	A	P	P	S	H	L	I		V	E	G	N	S	Н	Α	Q
	/181										/191								
	V V	GAA. E	GAT D	P CCC	ATC	ACA				AGT S			GTA V	CCT P	TAT Y	GAG E	P	P	CAG O
	<sup>201</sup>	_	D	P	1	T	G	R	Q		/211	'n	٧	r	1	L	•	F	V
		ACT	GAA	TTC	ACG	ACA	GTC	TTG	TAC			ATG	TOT	AAC	AGC	AGT	TGT	CIT	GGA
V,	G	T	E	F	T	T	ν	L	Y	N	F	M	С	N	s	S	C	v	G
	221										/231								
·GGG																			
G 721/		N	R	ĸ	Р	I	L	I	Ι		T 251	L	E	T	R	D	G	Q	V
		CGA	CGC	TGC	ייויד	GAG	cm	ന്ന	እጥሮ			TGC	CCA	GGA	AGA	GAC	AGG	AAG	GCG
			R			E					A		P						A
781/										811,									
						AAG	CAG											CCT	
D 841/	E '201	D	s	I	R	ĸ	Ω	Q	V	S		S	T	K	N	G	D	G	T
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TCC	CCA	TAD	GAT	GAA	CTG	TTA	TAC	TTA				GGC	$\infty$ T	GAG	ACT	TAT	GλΑ	<b>DTA</b>	CTG
	P	D	D	E	L	L	Y	L	P		R	G	R	E	T	Y	E	M	L
961/		<b>1</b> mo								991/								_	_
1 1 G	MAG K					CTG L			ATG	CAG	TAC	CTT							
	/341			E.	5	ה	E	L	Ж		Y ./351		P	Q	Н	T	I	E.	T
TAC	AGG	CAA	CAG	CAA	CAG	CAG	CAG	CAC	CAG	CAC	TTA	CTT	CAG	ААА	CAG	ACC	TCA	АТА	cAG
Y	R	Q	Q	Q	Q	Q			Q	H	L	L	Q	K			s	I	Q
1081	./361	L								1111	/371		-		-				-
TCT	CCA	TCT	TCA	TAT	COL	AAC													
	P ./381		S	Y	G	И	S	S					K	M	N	S	М	И	K
CIG			G/YY:	AGC	CAG	יייני	יצדמ	ם ממ	CCT	77/1	./391 Cac		מת מ	<b>с</b> сс	~~	7 CM	CC11	ארא	),CC
L	P	5	v	s	δ 	L	I	N	P	O	O O	R R	N	λ	L			ACA T	T
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Figure 13 Cont.

1231/411

ATT CCT GAT GCC ATG GGA GCC AAC ATT CCC ATG ATG GGC ACC CAC ATG GCA ATG GCT GGA

I P D G H C A N I P M M G T H M P M A G

1291/431

GAC ATG AAT GGA CTC AGC CCC ACC CAG GCA CTC CCT CCC CCA CTC TCC ATG CCA TCC ACC

D M N G L S P T Q A L P P P L S M P S T

1321/441

TCC CAC TCC ACA CCC CCA CCT CCG TAT CCC ACA GAT TGC AGG ATC TGG CAA

S H C T P P P P Y P T D C S I V R I W Q

1381/461

GTC TGA

V \*



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1/:											/11								
M.	i TIC	· TAC Y	: CTC	GAA E	AAC N	raa : N	r GCC	CAC Q	SAC. T		a TT F	rag S	T GAC E	CCA P					CTG
61.	/21	1	Ц	£	14	14	A	Q	1		/31	5	£	P	Q	Y	T	N	L
		cre	; AAC	AGC	ATG	GAC	CAC	CAC	AT.			g GG	c TCC	TCC	TCC	2 ACC	AG.	rcc	TAT
	L	L	N	S	М	D	Q	Q	I	Q		G	s	S	S	T	s	P	Y
	1/41										1/51								
																			TCC
N	т 1/61	D	H	Α	Q	И	S	V	Т		P 1/71	S	P	Y	A	Q	P	s	S
		' GAT	· c(~	<u>( ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (</u>	ጥርጥ	רכי	ту~ b	, ,,,,,,	י הכר			· 1700	^ אמ	י ארר	G N C	ጥእር		CCC	. cce
T		D		L	s	P			A		P					Y	P	G	P
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																	TGC	ACC	TAT
H 301	S ./101	F	D	V.	s	F	Q	Q	s		T		K	s	A	T	W	T	Y
			CALC	ממ	מממ	CTY	י שארי	· 1700	י מט		/111		ን አርነአ	mca	ccc	300	- 030		. AAG
s	T	E	L	K	K	L	Y	C		I				C	P	I	Q Q	I	K K
	/121			-					_	391	/131		_						
				CCT	CCT	CAG	GGA	GCI	GTT	' ATC	CGC	: GC(	ATG	CCT	GTC	TAC	AAA	AAA	GCT
V 421		T	Þ	P	P	Q	G	Α	V	I			M	P	v	Y	ĸ	ĸ	A
	/141		) CC	CNC	cov	^m⁄	220	~~~		451	/151		GAG	~~~					
E		V	T T	E	V GIG	A CIG	K K	R	C	P		H	E E	L	S	P.	GAA E	. TTC F	N
481	/161		-	-	•	•	10	**	•		/171			ы	3	F.	L	r	14
GAG	GGA	CAG	ATT	GCC	CCT	CCT	AGT	CAT	TTG	ATT	CGA	GT?	GAG	GGG	AAC	AGC	CAT	GCC	CAG
E	G	Q	I	A	P	Ď	S	H	L	I	R	V	Ε	G	И	s	H	Α	Q
	/191		CM	000	N 00/2				<b>a</b>		/191								
Y	V	E	D	P	I	ACA T	G	R R	Q Q		A CAR		GTA V	P	TAT Y	GAG E	CCA P	CCC P	
	/201								·	631	/211					_	-		Q
GTT	eec	ACT							TAC	AAT	TIC	ATG	TGT	AAC	λGC	AGT	TGT	GTT	GGA
V 661	G /221	T	E	F	T	T	V	L	Y	N			С	N	S	S	С	V	G
		AAc	CaC	Cat	CCA	ىلىلە⊏	מיזים	יינים	חער ע	CALAL	231/ محم	CTC	GAA	NCC.	202	CM	000	~~~	0770
G	M	N	R	R	P	I	L	I	I	v		L	E	T	R	D	G	Q	A A
	/241									751	/251							•	•
L	eec	CGA	CCC	TGC	TTT	GAG	GCC						CCA	GGA	AGA	GAC	AGG	AAG	GCG
	/261	R	R	С	F	E	A	R	I	C	A /271	С	P	G	R	D	R	K	A
		GAT	AGC	ATC	AGA	AAG	CAG	CAA	ינידט	ACC.	/271 GNC	y Can	ACA	330	330		C > m	^~~	١.٥
D	E	D	S	I	R	ĸ	Q	Q	v	S		S		K :		G	D	GGT	ACG T
	/281									871	/291							_	
aag K	CGC R	CCG P	TTT	CGT	CAG	AAC	ACA	CAT	GGT				ACA		ATC	AAG	AAA	CGA	AGA
901,		P	F	R	Q	И	T	Н	G		Q	M	T	S	r	K	K	R	R
		GAT	GAT	GAA	CTG	TTA	ጥእሮ	בידיד	422	931/	JCC.	CC.C	CGT	CAG	n Corr	መእመ	C) }	<b>&gt;</b>	
3	F	D	D	E	L	L	Y	L	P	v	R	G	R	E	T.	X Y			L
	/321									991/	/331								
TIG	AAG K	ATC	AAA	CAG	TCC	CTG	GAA	CTC	λТG	CAG	TAC	CTT	CCT	CAG	CAC	ACA	ATT	GAA	ACG
1021	(/34)		K	E,	Ş	L	E	L	M				P	Q	H	T	I	E	T
TAC	AGG	CAA	CAG	CAA	CAG	CAG	CAG	CAC	CAG	Cyc TOD1	7351 TTA	Cስስብ r	CAG	מממ	ጉ ጥ ጥ	<b>८</b> ग√	CULT	πo.»	CO2
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	1/361									1111	1771								
J.C.C.	JJC	AGG	TAA	GAG	CTT	GTG	GAG	CCG	ÇGG	AGA	GAA	ACT	CCA	AAA	CAA	TCT	GAC	GTC	TTC
-	F 1/381	*/	N	E	L	V	E	P	R	R	E	T	P	K	Q	S	D	V	
		CAT	ጥርር	A A C	CCC	CCA	~ממ	ccs	ma:	1171	/391								
F	R	H	s	AAG K	P P		aac N	CGA R	TUA	UIG U	TAC	CCA	TAG *						
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61/21							91/3									
CGT TTC ATA	GAA ACC	CCA	GCT	CAT			TGG	AAA	GAA	AGT	TAT	TAC	AGA	TCT	CCC	ATG
RFIE	E T	P	A	H	F	S	W	_	E	S	Y	Ÿ	R	S	Ą	M
121/41							151/		C > C	~~~	mm/c	CIC	CAT	VIII.	đ/C/C	CAT
TCG CAG AGC A						L	ALC	b CCA	E CMG	V	F	CWD.	Н	I	M 100	D
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421/141							451/									
AAT AGC GTG A						GCA	CYC	CCC	AGC	TCC S	ACC	TIT	GAT D		CTC L	TCT S
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901/301								_		_						
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	TAG ƏAT N Y		atg M	TGT C	aac N	agc S	AGC S	311 TGC C	GTC	GGA	GGA	atg M	aac n	AGA R	CgT R	CCV P
961/321	у и	F	M	С	N	s	AGC S 991/	311 TGC C 331	GTC V	gga g	GGA G	M	И	R	R	P
961/321 ATT TTA ATC 2	y n Atc oft	F ACT	M CTG	C GAA	N ACC	s aga	AGC S 991/ GAT	311 TGC C '331 GGG	GTC V CAA	GGA G gTC	GGA G CTG	M GGC	N CGA	R	r TGC	P
961/321 ATT TTA ATC I I L I : 1021/341	Y N ATC GTT I V	F ACT T	M CTG L	C GAA E	N ACC T	S AGA R	AGC S 991/ GAT D 1051	311 TGC C 331 GGG G L/351	GTC V CAA Q L	GGA G gTC V	GGA G CTG L	e ecc m	n CGA R	R CGG R	r TGC C	P TTT F
961/321 ATT TTA ATC 1 I L I : 1021/341 GAG GCC CGG 1	Y N ATC GTT I V	F ACT T	M CTG L	C GAA E	N ACC T	S AGA R	AGC S 9917 GAT D 1051 GAC	7311 TGC C 7331 GGG G L/351 CGG	GTC V CAA Q L	GGA G gTC V GCA	GGA G CTG L GAT	M GGC G GAA	n CGA R GAC	R CGG R AGC	R TGC C ATC	P TTT F AGA
961/321 ATT TTA ATC A I L I 1021/341 GAG GCC CGG A E A R	Y N ATC GTT I V	F ACT T GCL	M CTG L TGC	C GAA E CCA	N ACC T GGA	S AGA R AGA	AGC S 991/ GAT D 1051 GAC D	311 TGC C 3331 GGG G L/351 CGG R	GTC V CAA Q L AAG K	GGA G gTC V	GGA G CTG L GAT	e ecc m	n CGA R	R CGG R	r TGC C	P TTT F
961/321 ATT TTA ATC A I L I : 1021/341 GAG GCC CGG A E A R : 1081/361	Y N ATC GIT I V ATC TGI I C	F ACT T GCL A	M CTG L TGC C	C GAA E CCA P	n acc t gga g	S AGA R AGA R	AGC S 991/ GAT D 1051 GAC D	311 TGC C 3331 GGG C I/351 CGG R L/371	GTC V CAA Q L AAG K	GCA G GTC V GCA A	GGA G CTG L GAT D	M GGC G GAA E	N CGA R GAC D	R CGG R AGC S	R TGC C ATC I	P TTT F AGA R
961/321 ATT TTA ATC // I L I : 1021/341 GAG GCC CGG // E A R : 1081/361 AAG CAG CAA	Y N ATC GTT I V ATC TGT I C	F ACT T GCL A	M CTG L TGC C	C GAA E CCA P GCA	N ACC T GGA G AAG	S AGA R AGA R	AGC S 991/ GAT D 1051 GAC D 1111 GGC	311 TGC C 331 GGG C (/351 CGG R (/371 GAT	GTC V CAA Q L AAG K L GGT	GGA G GTC V GCA A	GGA G CTG L GAT D	M GGC G GAA E CGC	N CGA R GAC D	R CGG R AGC S	TGC C ATC I CGT	P TTT F AGA R
961/321 ATT TTA ATC // I L I : 1021/341 GAG GCC CGG // E A R : 1081/361 AAG CAG CAA ( K Q Q :	Y N ATC GIT I V ATC TGI I C	F ACT T GCL A	M CTG L TGC C	C GAA E CCA P GCA	N ACC T GGA G AAG	S AGA R AGA R	AGC S 991/ GAT D 1051 GAC D 1111 GGC G	311 TGC C 3331 GGG C 1/351 CGG R 1/372 GAT D	GTC V CAA Q L AAG K L GGT G	GCA G GTC V GCA A	GGA G CTG L GAT D	M GGC G GAA E CGC	N CGA R GAC D	R CGG R AGC S	R TGC C ATC I	P TTT F AGA R
961/321 ATT TTA ATC A I L I 1021/341 GAG GCC CGG A E A R 1081/361 AAG CAG CAA K Q Q 1141/381	Y N ATC GTT I V ATC TGT I C GTA TCG V S	F ACT T GCE A GAC D	M CTG L TGC C AGC S	C GAA E CCA P GCA A	N ACC T GGA G AAG K	S AGA R AGA R AAC N	AGC S 991/GAT D 1051 GAC D 1111 GGC G 1171	311 TGC C 3331 GGG G I/351 CGG R I/371 GAT D	GTC V CAA Q L AAG K L GGT G	GGA G GTC V GCA A ACG T	GGA G CTG L GAT D AAG K	M GGC G GAA E CGC R	N CGA R GAC D CCT P	R CGG R AGC S TTC F	TGC C ATC I CGT R	TTT F AGA R CAG Q
961/321 ATT TTA ATC 1 I L I 1 1021/341 GAG GCC CGG 1 E A R 1 1081/361 AAG CAG CAA ( K Q Q 1 1141/381 AAT ACA CAC (	Y N ATC GTT I V ATC TGT I C GTA TCG V S	F ACT T GCL A GAC D CAG	M CTG L TGC C AGC S	C GAA E CCA P GCA A ACT	N ACC T GGA G AAG K	AGA R AGA R AAC N ATC	AGC S 991/GAT D 1051 GAC D 1111 GGC G 1171 AAG	311 TGC C 3331 GGG G I/351 CGG R I/371 GAT D	GTC V CAA Q L AAG K L GGT G	GCA G T GCA A ACG T AGA	GGA G CTG L GAT D AAG K	M GGC G GAA E CGC R	N CGA R GAC D CCT P	R CGG R AGC S TTC F	TGC C ATC I CGT R	TTT F AGA R CAG Q



## Figure 15 Cont.

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P P	Y 561 TG G	ЭC	P	T. TIC	D	ycc	s CAg	1 999	V	S 1711 AcC	F 1/571 ACC	L ATC	A TaT	R CAG	L Att	G	С	S	S
P P 1661/9 TGC C	Y 561 TG G D	ЭC	P TAT	T. TIC	D ACG	ycc	s CAg	1 999	v ctg	S 1711 AcC T	F 1/571 ACC	L ATC I	A	R CAG	L Att	G GAG	c cat	s tac	s TCC
P P 1661/5 TGC C: C L 1741/5	Y 561 TG G D 581	AC	P TAT Y	TTC F	D ACG T	C ACC T	s CAg Q	G aaa	r cig	S 1713 AcC T 1771	F 1/57] ACC T 1/59]	L ATC I	А ТаТ Ү	r Cag Q	L ATT I	e cae e	C CAT H	S TAC Y	S TCC S
P P 1661/5 TGC CC C L	Y 561 TG G D 581 AT G	AC AT	P TAT Y TtG	TTC F	D ACG T aGT	C ACC T CTG	s CAg Q	G aaa	r cig	S 1713 AcC T 1771 GAA	F 1/571 ACC T 1/591 CAG	L ATC I TTC	A TAT Y CGA	R CAG Q CAT	L ATT I	g gag e atc	C CAT H	5 TAC Y AAg	S TCC S
P P 1661/5 TGC CC L 1741/5 ATG GS	561 TG G D 581 AT G	AC AT	P TAT Y TtG	TTC F GCa	D ACG T aGT	C ACC T CTG	s Cag Q Aag	I ggg ATc	V CTG L ccT	S 1711 ACC T 1771 GAA E	F 1/571 ACC T 1/591 CAG	ATC I TTC F	A TAT Y CGA	R CAG Q CAT	L ATT I GCC	g gag e atc	C CAT H TGG	5 TAC Y AAg	S TCC S GGC
P P 1661/5 TGC C L 1741/5 ATG G M D 1801/6	561 TG G 581 AT G 601	AC AT	P TAT Y TTG L	TTC F GCa A	D ACG T aGT S	C ACC T CTG	S CAg Q AAG K	I G ATC I	V CTG L CCT P	S 1713 ACC T 1771 GAA E 1831	F 1/571 ACC T 1/591 CAG Q 1/611	L ATC I TTC F	A TAT Y CGA R	R CAG Q CAT H	L ATT I GCC A	G GAG E ATC I	C CAT H TGG W	TAC Y AAg K	S TCC S GGC G
P P 1661/9 TGC C L 1741/9 ATG G M D 1801/9 ATC C	561 TG G 581 AT G 601	AC AT	TAT Y TTG L CAC	TTC F GCa A	ACG T aGT S cAG	C ACC T CTG L CTG	S CAG Q AAG K CAC	I ggg G ATc I GAC	V CTG L CCT P	S 1711 AcC T 1771 GAA E 1831 TCC	F 1/571 ACC T 1/591 CAG Q 1/611	ATC I TTC F	A TAT Y CGA R	R CAG Q CAT H CaT	L ATT I GCC A CTC	G GAG E ATC I	C CAT H TGG W	TAC Y AAg K	S TCC S GGC G
P P 1661/9 TGC C L 1741/9 ATG G M D 1801/9 ATC C	561 TG G 581 AT G 601 TG G	AC AT	TAT Y TTG L CAC	TTC F GCa A	ACG T aGT S cAG	C ACC T CTG L CTG	S CAG Q AAG K CAC	I ggg G ATc I GAC	V CTG L CCT P	S 1711 AcC T 1771 GAA E 1831 TCC S	F ACC T -/591 CAG Q -/611 TCA	L ATC I TTC F CCT	TAT Y CGA R CCT	R CAG Q CAT H CaT	L ATT I GCC A CTC	G GAG E ATC I CTG	C CAT H TGG W AGG	TAC Y AAg K	S TCC S GGC G
P P 1661/9 TGC C L 1741/9 ATG G M D 1801/0 ATC C I L 1861/0	Y 561 TG G D 581 AT G D 601 TG G D 621	AC AT	TAT Y TCG L CAC H	TTC F GCa A AGG R	ACG T aGT S cAG Q	C ACC T CTG L CTG L	S CAG Q AAG K CAC H	I ggg G ATc I GAC D	V CTG L CCT P TTC F	S 1711 AcC T 1771 GAA E 1831 TCC S 1891	F 1/571 ACC T 1/591 CAG Q 1/611 TCA S	ATC I TTC F CCT P	TaT Y CGA R CCT P	R CAG Q CAT H CAT H	L ATT I GCC A CTC L	G GAG E ATC I CTG L	C CAT H TGG W AGG R	TAC Y AAg K ACC T	TCC S GGC G CCA P
P P 1661/9 TGC C L 1741/9 ATG G M D 1801/0 ATC C I L	561 TG G 581 AT G 601 TG G 621 GT G	AC AT Ac	TAT Y TUG L CAC H TCT	TTC F GCa A AGG R	ACG T aGT S cAG Q	C ACC T CTG L CTG L AGT	S CAG Q AAG K CAC H	I ggg G ATc I GAC D	V CTG L CCT P TTC F	S 1711 AcC T 1771 GAA E 1831 TCC S 1891	F 1/571 ACC T 1/591 CAG Q 1/611 TCA S 1/631 GAG	L ATC I TTC F CCT P	TAT Y CGA R CCT P CGT	R CAG Q CAT H CAT H CAT H	L ATT I GCC A CTC L GAA	G GAG E ATC I CTG L	C CAT H TGG W AGG R	TAC Y AAg K ACC T	TCC S GGC G CCA P
P P 1661/9 TGC C L 1741/9 ATG G M D 1801/0 ATC C I L 1861/0 AGT G G	561 TG G 581 AT G 601 TG G 621 GT G	AC AT Ac	TAT Y TUG L CAC H TCT	TTC F GCa A AGG R	ACG T aGT S cAG Q	C ACC T CTG L CTG L AGT	CAG Q AAG K CAC H	I ggg G ATc I GAC D	V CTG L CCT P TTC F TCC	S 1711 ACC T 1771 GAA E 1831 TCC S 1891 AGT S	F 1/571 ACC T 1/591 CAG Q 1/611 TCA S 1/631 GAG	L ATC I TTC F CCT P ACC T	TAT Y CGA R CCT P CGT	R CAG Q CAT H CAT H CAT H	L ATT I GCC A CTC L GAA	G GAG E ATC I CTG L CGT	CAT H TGG W AGG R	TAC Y AAG K ACC T	TCC S GGC G CCA P
P P 1661/9 TGC C L 1741/9 ATG G M D 1801/0 ATC C L 1861/0 AGT G G S G 1921/0	561 TG G 581 AT G 601 TG G 621 GT G	AC AT AC	TAT Y TUG L CAC H TCT S	TTC F GCa A AGG R ACC T	ACG T > S CAG Q GTC V	C ACC T CTG L CTG L ACT S	CAG Q AAG K CAC H GTG V	ggg G ATc I GAC D GGC G	CTG L CCT P TTC F	S 1711 ACC T 1771 GAA E 1831 TCC S 1891 AGT S	F 1/571 ACC T 1/591 CAG Q 1/611 TCA S 1/631 GAG E 1/651	L ATC I TTC F CCT P ACC T	TAT Y CGA R CCT P CCT R	R CAG Q CAT H CAT H GGT G	L ATT I GCC A CTC L GAA E	G GAG E ATC I CTG L CGT R	C CAT H TGG W AGG R GTG V	TAC Y AAG K ACC T ATC I	S TCC S GGC G CCA P GAT D
P P 1661/9 TGC C L 1741/9 ATG G M D 1801/0 ATC C L 1861/0 AGT G G S G	561 TG G 581 AT G 601 TG G 621 GT G	AC AT AC CC	TAT Y TUG L CAC H TCT S	TTC F GCA A AGG R ACC T	ACG T AGT S CAG Q GTC V CTC	C ACC T CTG L CTG L AGT S CGC	CAG Q AAG K CAC H GTG V CAG	ggg G ATC I GAC D GGC G	CTG L CCT P TTC F	S 1711 ACC T 1771 GAA E 1831 TCC S 1891 AGT S 1951	F 1/571 ACC T 1/591 CAG Q 1/611 TCA S 1/631 GAG E 1/651	ATC I TTC F CCT P ACC T	TAT Y CGA R CCT P CGT R CCCC	R CAG Q CAT H CAT H CGT G CGT	L ATT I GCC A CTC L GAA E	G GAG E ATC I CTG L CGT R GAG	C CAT H TGG W AGG R CTG V TGG	TAC Y AAG K ACC T ATC I AAT	S TCC S GGC G CCA P GAT D
P P 1661/9 TGC C L 1741/9 ATG G M D 1801/0 ATC C L 1861/0 AGT GC S G 1921/6 GCC GC GCC C C C C C C C C C C C C C C	561 TG G 581 AT G 601 TG G 621 GT G 641 TG C	AC AT AC CC	TAT Y TTG L CAC H TCT S TTT	TTC F GCA A AGG R ACC T	ACG T AGT S CAG Q GTC V CTC	C ACC T CTG L CTG L AGT S CGC	CAG Q AAG K CAC H GTG V	ggg G ATC I GAC D GGC G	V CTG L CCT P TTC F TCC S ATC	S 1711 AcC T 1771 GAA E 1831 TCC S 1891 AGT S 1951 TCT S	F 1/571 ACC T 2/591 CAG Q 1/611 TCA S 1/631 GAG E 1/651	ATC I TTC F CCT P ACC T CCA P	TAT Y CGA R CCT P CGT R CCC	R CAG Q CAT H CAT H CGT G CGT	L ATT I GCC A CTC L GAA E	G GAG E ATC I CTG L CGT R GAG	C CAT H TGG W AGG R CTG V TGG	TAC Y AAG K ACC T ATC I AAT	TCC S GGC G CCA P GAT D GAT
P P 1661/17 TGC C L 1741/19 ATG G M D 1801/10 ATC C 1 L 1861/10 AGT G S G 1921/10 GCC G A V 1981/18	561 TG G 581 AT G 601 TG G 621 GT G 641 TG C 8661	AC AT AC CC	TAT Y TUG L CAC H TCT S TTT F	TTC F GCa A AGG R ACC T	ACG T AGT S CAG Q GTC V CTC L	C ACC T CTG L CTG L AGT S CGC R	CAG Q AAG K CAC H GTG V CAG Q	T ACC T ACC T	V CTG L CCT P TTC F TCC S ATC I	S 1711 AcC T 1771 GAA E 1831 TCC S 1891 AGT S 1951 TCT S	F 1/571 ACC T 1/591 CAG Q 1/611 TCA S 1/631 GAG E 1/651 TIT F	ATC I TTC F CCT P ACC T	TaT Y CGA R CCT P CGT R	R CAG Q CAT H CAT H CGT G CGT R	L ATT I GCC A CTC L GAA E GAC D	G CAG E CTG L CGT R GAG E	C CAT H TGG W AGG R GTG V TGG W	TAC Y AAG K ACC T ATC I AAT N	S TCC S GGC G CCA P GAT D GAT
P P 1661/17 TGC C L 1741/19 ATG G M D 1801/10 ATC C L L 1861/10 AGT G G G 1921/10 GCC G G L V 1981/16 ATC AV	7561 TG G 581 AT G 601 TG G 621 GT G 641 TG C 8661	AC AC CC GC	P TAT Y TTG L CAC H TCT S TTT F	TTCF GCAAAAGGR ACCTT ACCTT	ACG T AGT S CAG Q GTC V CTC L	C ACC T CTG L CTG L AGT S CGC R TCT	S CAG Q AAG K CAC H GTG Q CGT	I gag G ATC I GAC G ACC T CCCC	V CTG L CCT P TTC F TCC S ATC I AAC	S 1711 AcC T 1771 GAA E 1831 TCC S 1891 AGT S 1951 TCT S	F 1/571 ACC T 1/591 CAG Q 1/611 TCA S 1/631 GAG E 1/651 TIT F 1/671 CAG	L ATC I TTC F . CCT P . ACC T . CCA P . CAG	TAT Y CGA R CCT P CGT R CCC	R CAG Q CAT H CAT H CGT G CGT R	L ATT I GCC A CTC L GAA E GAC D	GAG E ATC I CTG L CGT R GAG E GAG	C CAT H TGG W AGG R GTG V TGG W GAA	TAC Y AAAG K ACC T ATC I AAT N	S TCC S GGC G CCA P GAT D GAT
P P 1661/17 TGC C L 1741/19 ATG G M D 1801/10 ATC C L L 1861/10 AGT G G G 1921/10 GCC G G L V 1981/16 ATC AV	Y 561 TG G D 581 G G G G G G G G G G G G G G G G G G G	AC AC CC GC	P TAT Y TTG L CAC H TCT S TTT F	TTCF GCAAAAGGR ACCTT ACCTT	ACG T AGT S CAG Q GTC V CTC L	C ACC T CTG L CTG L AGT S CGC R	S CAG Q AAG K CAC H GTG Q CGT	I gag G ATC I GAC G ACC T CCCC	V CTG L CCT P TTC F TCC S ATC I AAC	S 1711 AcC T 1771 GAA E 1831 TCC S 1891 AGT S 1951 TCT S 2011 AAG	F 1/571 ACC T 1/591 CAG Q 1/611 TCA S 1/631 GAG E 1/651 TIT F 1/671 CAG	L ATC I TTC F . ACC T . CCA P . CAG	TAT Y CGA R CCT P CGT R CCC	R CAG Q CAT H CAT H CGT G CGT R	L ATT I GCC A CTC L GAA E GAC D	GAG E ATC I CTG L CGT R GAG E GAG	C CAT H TGG W AGG R GTG V TGG W GAA	TAC Y AAAG K ACC T ATC I AAT N	S TCC S GGC G CCA P GAT D GAT D
P P 1661/17 TGC C L 1741/19 ATG G M D 1801/0 ATC C 1 L 1861/0 AGT G S G 1921/0 GCC G A V 1981/6 TTC AV F N	Y 561 TG G D 581 G G G G G G G G G G G G G G G G G G G	AC AC CC GC	P TAT Y TTG L CAC H TCT S TTT F	TTCF GCAAAAGGR ACCTT ACCTT	ACG T AGT S CAG Q GTC V CTC L	C ACC T CTG L CTG L AGT S CGC R	S CAG Q AAG K CAC H GTG Q CGT	I gag G ATC I GAC G ACC T CCCC	V CTG L CCT P TTC F TCC S ATC I AAC	S 1711 AcC T 1771 GAA E 1831 TCC S 1891 AGT S 1951 TCT S 2011 AAG	F 1/571 ACC T 1/591 CAG Q 1/611 TCA S 1/631 GAG E 1/651 TIT F 1/671 CAG	L ATC I TTC F . ACC T . CCA P . CAG	TAT Y CGA R CCT P CGT R CCC	R CAG Q CAT H CAT H CGT G CGT R	L ATT I GCC A CTC L GAA E GAC D	GAG E ATC I CTG L CGT R GAG E GAG	C CAT H TGG W AGG R GTG V TGG W GAA	TAC Y AAAG K ACC T ATC I AAT N	S TCC S GGC G CCA P GAT D GAT D



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λTG	\AT	TTT	. CYY	ACT	TCA	CGG	TGT	GCC	ACC	CT/	CAC	TAC	TGC	cco	GAC	CCI	TAC	ATC	CAG
M	N	F	E	T	S	R	С	A	T	L	Q	Y	С	P	D	P	Y	I	Q
61/										91/									
																			ATG
R 121	F /41	I	E	T	P	Α	Н	F	S		K	E	S	Y	Y	R	S	A	M
		AGC	ACC	CAG	ארא	n.c.c	CAC	TATAC	cœc		./51	ChC	CMC	i mma	CAC	- Chm	י אתערי	m^	GAT
5		S		δ Cwn	T				L	. אנא	P	. CAL	, GTC	. 11C	CAU	H	I	W	D
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		GAA	CAG	CCT	ATA	TGC	TCA	GTA	CAG			GAG	TTG	AAC	TTT	GTG	CAT	GAA	CCT
F	L			P	I	C					I		L			v		E	p
241											/91								
																cGC	ATG	Caa	GAc
S	E /101	N	G	Α.	T	N	K	I	E		S		D	С	I	R	M	Q	D
	/101	~~~	NCT	C>-		3000	<i>-</i>	~~	~~		/111								
S	D	cTC	S	D	P	M					T			G			AAC N	AGC S	M
	/121	_	_	_	•	••	••	-	¥		/131	77	IJ	G		ב	14	3	17
GAC	CAG	CAG	ATT	CAG	AAC	GGÇ	TCC	TCG	TCC			CCC	TAC	Aac	ACA	GAC	CAC	GCA	CAG
D	Q	Q	I	Q	N	G	S	S	S	T			Y		T	D	Н	A	Q
	/141										/151								
TAA	AGC	GTG	ACG						GCA	CAG	CCC	AGC	TCC	ACC	TTT	cat	GCC	CTC	TCT
N	S	V	T	A	P	S	P	Y	Α	Q		S	S	T	F	D	A	L	S
	/161	CCT	ccc	እመመ	~~~	mc a			~> ~		/171								
P	5	CCT P	A	I	P	S	N	ACA T	D	Y		GGC	P P		AGC S	F	GAT D	V	TCC S
541.	/181	-	••	^	•	3	14	1	U		/191	G	P	r.	3	r	ט	V	۵
TTC	CAG	CAG	TCA	AGC	ACT	GCC	AAG	TCA	GCC			ACG	TAT	TCC	ACC	GAA	CTG	AAG	AAG
F	Q		S	S	T	Α	K	S	Α		W		Y	s	T	E	L	ĸ	K
	/201										/211								
CIG	Y	1.CC	CAG	ATT															
	/221	С	Q	7	A	K	Т	C	P	I	Q /231	I	K	V	M	T	P	P	P
		GCT	GTE	ATC	CGT	GCC	ATYC	CCT	CITY			מממ	com	CNG	$C^{N}$	CTC.	NCC.	CXC	C-TVTD
Q	G	Α	v		R		M		v	Y				E	Н	V	T	E	V
	/241									751	/251						_	_	•
GTG	AAA	CGA	TGC	CCT	AAC	CAT	GAG	CTG	AGC	COT	GAG	TTC	AAT	GAG	GGA	CAG	TTA	GCC	CCT
V	K	R	C	P	N			L		R	E			$\mathbf{E}$ .					P
781/		CAT	CTC	חצת	CC)	~ms				811,	271								
P	S	CAT H	L	I	R	V	gaa	GGG G	AAC	AGC	CAT	GCC	CAG						
841/			_	_	•			G	IA		ዘ '291	A	V	Y	V	E	D	Þ	I
		AGG	CAG	AGC	GTG	CTG	GTC	CCT	ТАТ	GAG	CCA	CCA	CaG	(TYF)	GGC	TOA	GAA	רוניון	<b>ACA</b>
.1.	G	R	Q	S	V	L	V	P	Y	E	P P			v					T
	301									931/	311		-						-
ACA	GIC	CIG	TAC	TAS	TTC	ДТС	TGT	Aac	AGC	AGC	TGC	GTC	GGA	GGA	DTA	AAC	AGA	CgT	CCA
961/	V '221	L	Y	И	F	M			S		C	V	G -	G	M	N	R	R	P
		ATC	ът.	C TO	N CVD	omo				991/	331								
ATT I	L	I	I	A O11	T.	L	Gaa E	ACC T	AGA n	GAT	GGG	CAA	grc	CTG	GGC				
	/341		-	•	•		£.	r	K	1051	G ./351	Q	V	ъ	G	R	R	c	F
GAG	GCC	CGG	<b>ATC</b>	TGT	GCt	TGC	CCA	GGA	AGA	GAC	CGG	AAG	GCA	GAT	GAA	GAC	እርር	אדכ	אכא
	л	r.	I	С	A	C	P	G	R	D	R	ĸ						I	
	./361									1111	/371						_		
AAG V	CAG	CAA	GTA	TCG	GAC	AGC	GCA	aag	AAC	GGC	GAT	CCT	ACG	AAG	CGC	CCT	TTC	COT	CAG
K 1141	Ϋ́	V	v	5	D	S	A	K	N	G	D	G		K				R	
			CGN	አጥ <b>∽</b>	C>~	>m^	. ~~	ma-	. m -	1171	/391								
TAA N	T	H.	G	I	Q :	AIG . M	ACT T	TCC .	a'i'C T	aag v	AAA V	CGG	AGA	xcc	CCA	GAT	GAT -	GAG.	CTG
			-	-	×	• •		<b>ა</b>	4	4	K	ĸ	ĸ	S	ħ.	D	D :	E	I.



#### Figure 16 Cont.

	/401										/411								
CTG	TAC	CTA	CCA	GTG	AGA	GGT	CGT	CAG	ACG	TAC	GAG	ATG	TTG	CTG	AAG	ATC	AAA	GAG	TCA
L	Y	L	P	ν	R	G	R	E	T	Y	Ε	M	L	L	K	I	K	E	5
	1/421										[/43]								
CTG	GAG	CTC	ATG	CAG	TAC	CTC	CCT	CAG	CAC	ACG	ATC	CAA	ACG	TAC	AGG	CAG	CAG	CAG	CAG
L	E	L	M	Q	Y	L	P	Q	H	T	I	E	T	Y	R	Q	Q	Q	Q
	1/44										L/453								•
CAG	CAG	CAC	CAG	CAC	CTA	CTT	CAG	AAA	CAG	ACC	TCG	ATG	CAG	TCT	CAG	TCT	TCA	TAT	GGC
Q	Q	H			L						S		Q		Q	S	S	Y	G
138	1/46	1									1/47								
AAC	AGT	TCC	CCA	CCT	CTG	AAC	AAA	ATG	AAC	AGC	ATG	AAC	AAG	CTG	CCT	TCC	GTG	AGC	CAG
N	S	S		P	L	N	K		N		M		K	L	P	S	V	S	Q
144	1/48	1									1/49								
CTT	ATC	AAC	CCA	CAG	CAG	CGC	AAT	GCC	CTC	ACT	CCC	ACC	ACC	ATG	CCT	GAG	GGC	ATG	GGA
L	I	N			Q	R	N	Α	L	T	P	T	T	M	P	E	G	M	G
	1/50										1/51								
GCC	AAC	ATT	CCT	ATG	ATG	GGC	ACT	CAC	ATG	CCA	ATG	GCT	GGA	GAC	ATG	AAT	GGA	CIC	ХСС
A	N	I	P	M	M	G	T	H	M	P	M	Α	G	D	M	N	G	L	S
	1/52										1/53								
CCT	ACC	CAA	GCT	CTC	CCT	CCT	CCA	CTC	TCC	ДТG	ccc	TCC	ACC	TCC	CAC	TGC	YCC		
P	T	Q	Α	L	Þ	p	P	L	S	M	P	S	T	S	Н	С	T	P	P
	1/54										1/55								
CCG	CCC	TAC	CCC	AÇA	GAC	TGC	AGC	TTA	GIC	AGG	ATT	tGG	Caa		TGA				
P	P	Y	P	T	D	C	S	I	V	R	I	W	Q	V	*				



1./1									31/1	11								
1/1 ATG AAT	יועועני	( ) N	) CO	π∕ λ	ccc	ىلىتىل	arc	እርር			TAC	TGC	ccc	GAC	CCT	'TAC	DTA	CAG
M N	F	E	T	S	R	C	A	T	ī,	0	Y	c	Б	D	₽	Y	I	δ
61/21	r	E	,	3				•	91/		-							-
CGT TTC	4ma	CZZ	»CC	CCA	CCT	CAT	TTC	TCG			GAA	AGT	TAT	TAC	AGA	TCT	GCC	ATG
R F	I	E E	T	P	A	H	F	S	W		E	S	Y	Y	R	S	A	М
121/41	_		_	_	-		_	-	151	/51								
TCG CAG	AGC	ACC	CAG	ACA	AGC	GAG	TTC	CTC	AGC	CCA	GAG	GTC	TTC	CAG	CAT	ATC	TGG	GAT
s o	S	т	0~	T	S	E		L	S	Þ	E	v	F	Q	Н	<b>]</b> :	W	D
181/61		-	-						211	/71								
TTT CIG	GAA	CAG	CCT	ATA	TGC	TCA	GTA	CAG	ccc	ATC	GAG	$\mathtt{TTG}$	AAC	TTT	GTG	GAT	GAA	CCT
F L		Q					V			I		L	N	F	v	D	E	P
241/81									271									
TCC GAA	TAA	CCT	GCa	aCa	aaC	aaG	ATT	GAG	TTA	AGC	ATG	GAT	TGT	ATC	cGC	DTK	Caa	GAC
S E	N		A,	T	N	K	I	E	I		M	D	C	I	R	М	Q	D
301/101										/111								
TCA GAC	cTC	AGT	GAc	ccc	$\mathtt{ATG}$	Tgg	CCA	CAG	TAC	ACG	aAC	cTg	ggg	CTC	CTG	aAC	AGC	ATg
S D	L	S	D	P	M	W	P	Q		T	И	L	G	L	L	N	S	M
361/121										/131								
GAC CAG	CAG	ATT	CAG	AAC	GGc	TCC	TcG	TCC										
Ď Ö		I	Q	N	G	S	S	S	Τ		Р	Y	N	T	D	Н	A	Q
421/141										/151								
AAT AGO		ХСG	GCG	CCc	TCG								ACC					
N S		T	A	P	S	P	Y	Α	Q	P	S	S	T	F	D	A	L	S
481/161										/171		<b>50</b>	~~~		(Dance)	C h m	CTC.	mcc.
CCA Tcc													CAC	AUC	770	D	A	S
P S	P	A	I	P	S	N	T	D	Y	-	G	Þ	H	S	F	D	٧	5
541/181										/191		m . m	moo	3~~	a > >	~~~	220	220
TTC CAG																		K
F Q	Q	S	S	Т	A	K	S	A	T	W	T	Y	S	T	E	L	K	1
601/201								000		/211	אתיכיי	220	CALC:	አጥሮ	אככ	רכא	ccc	CCN
CTG TAC									I		I		V	M	T	P	P	P
L Y 661/221		Q	I	A	ĸ	T	С	Р		/231	1	V	٧	1.1	•		•	•
CAG GGC		CUM	2000	COT	~~~	N 00-	com	CITY			מממ	CCT	CZC	CAT	CTY.	ACC	GAG	CTT
0 G		V	I	R	A	M	P		Y			A	E	H	v	T	E	v
721/241		٧	_	Α.	A	1.1	r	٧		 /251	2.	**	_	•••	•	•		•
OTG AAA		ጥርረ	ርርጥ	אמר	Сът	GNG	cm:	AGC			TTC	таа	GAG	GGA	CAG	ATT	GCC	CCT
V K			p	N	Н		L	S	R		F		E			I		P
781/261		•	•	-1	••	ם	ם	Ü		/271	-		_	_	•	_		-
CCC AGT		CTG	TTA	CGA	GTA	GAA	GGG	AAC			GCC	CAG	TAT	GTA	GAA	GAT	CCT	ATC
P S			I	R	v	E		N		н	A		Y		Ε	D	P	I
841/281			_			_	•			/291		~						
ACG GGA	AGG	CAG	AGC	GTG	CTG	GTC	CCT	TAT	GAG	CCA	CCA	CAG	GTT	GGC	ACT	GAA	TTC	ACA
T G	R	Q	s	ν	L		P		E	P	P		ν	G	T	E	F	T
901/301									931	/311								
ACA GTO	CTG	TAC	AAT	TTC	ATG	TGT	AAC	AGC	AGC	TGC	GTC	GGA	GGA	ATG	AAC	AGA	CGT	CCA
T V	L	Υ	N	F	M	С	N	S	S	С	v	G	G	M	N	R	R	P
961/321									991	/331								
ATT TTA	ATC	ATC	GTT	ACT	CTG	GAA	ACC	AGA	GAT	GGG	CYY	GTC	CTG	GGC	CGA	CGG	TGC	TTT
I L	I	I	V	${f T}$	L	E	T	R	D	G	Q	ν	L	G	R	R	С	F
1021/34										1/35								
GAG GCC																		
E A		I	С	A	С	P	G	R		P.		Α	D	E	D	S	I	R
1081/36										1/37								
AAG CAG																		
K Q		V	S	D	S	A	K	И		D		F	R	Q	N	T	H	G
1141/38		_								1/39								
ATC CAG																_		
I 0	M	T	S	I	K	K	R	R	S	P	p	D	E	L	L	Y	L	P



#### Figure 17 Cont.

120	1/40	1								1233	1/413	l									
OTG	AGA				ACG	TAC	GAG	ATG	TIG	CTG	AAG	λTC	AAA	GAG	TCA	CTG	GAG	CTC	ЭTК		
V	R	G	R	E	$\mathbf{T}$	Y	E	M	L	L	K	I	K	E	S	L	E	L	M		
1261/421											1291/431										
CAG	TAC	CTC	CCT	CAG	CAC	ACG	ATC	GAA	ACG	TAC	AGG	CAG	CAG	CAG	CAG	CAG	CAG	CAC	CAG		
Q	Y	L	P	Q	H	T	I	E	Т	Y	R	0	0	0	0	0	0	H	0		
132	1/44	1							1351/451												
CAC	CTA	CTT	CAG	AAA	CAT	CTC	CTT	TCA	GCC				таа	GAG	CTT	GTG.	CAG	CCC	ccc		
H	L	L	Q	ĸ	H	L	L	S	A			R	N	E	T,	v	Ξ~	P	R		
138	1/46	1									[/47]		•	_	_	•	~	•	• •		
GGA	GAA	GCT	CCG	ACA	CAG	TCT	GAC	GTC	TTC				ጥርር	אאר	CCC	CCA	330	כאכ	TVCC:		
G	Ε	Α	P	T	0	S	D	v	F	F	R	Н	S	N	P	P	N	H	S		
1441	1/48	ı	_	_	*	_	_	•	•	•	••	11		14	F	E	14	п	5		
	TAC		ጥልር																		
V	v ~	P	*																		
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1/1									31/1	.1								
ATG TTG	ፐእር	CTG	σAA	λλC	ТЛА	GCC	CAG	ACT	CAA	TTT	AGT	GAG	CCA	CAG	TAC	ACG	AAC	CTG
M L	Y	L	E			A		T	Q	F	S	E	P	Q	Y	T	N	L
61/21							_		91/3	1								
GGG CTC	CTG.	AAC	AGC	ATG	GAC	CAG	CAG	ATT	CAG	AAC	GGC	TCC	TCG	TCC	ACC	AGC	CCC	TAC
G L	L	N	S		D D	Q	Q	I	0	N	G	S	S	S	T	S	P	Y
121/41	ב	**	•	••	_	×	ч	_	151/		-							
AZC ACA	CNC	CNC	CCN	CAC	እስጥ	200	CTYC	) CC			TCG	CCC	ТАТ	GCA	CAG	CCC	AGC	TCC
			λ		N	S	V	T	A		5	p	γ	A	Q	P	S	S
N T	D	Н	^	Q	7.4	3	•	•	211/		_	•	-	•	^			
181/61 ACC TTT	- n m	000	cmc	αν·m	CCN	TCC	CCT	ccc			ጥርር	AAC	ACA	GAT	TAC	CCG	GGC	CCA
						S	p	A	7	D	S	N	T T	D	Y	p	G	P
T F 241/81	D	A	ינ	s	Þ	3	F	A	271		_	•	•	-	•	=	_	
CAC AGO		CAT	CITY	T/~	ጥጥሩ	CNG	CNG	ጥርል			GCC	AAG	TCA	GCC	ACC	TGG	ACG	TAT
	F			S	FIC	Q	0	c	2	ጥ	A	ĸ	5	A	T	W	T	Y
н s 301/101		ע	۷.	J	r	V	V	3	331		••	••	_	••	-	•		
TCC ACC		cmc	220	220	~~	mx~	тсс.	CNC			AAC	DC3	TCC	CCC	ATC	CAG	ATC	AAG
S T		L		X	L L	Y	C	^	T T	h h	ĸ.	T	c	P	I	Q	I	ĸ
361/121			Λ.		ט		_	×	391		•	-	_	_	_	`		
GTG ATG	, NCC	CCN	ccc	CCN	CNC	ccc	CCM	CTF:			GCC	ATG	ССТ	GTC	TAC	AAG	AAA	CCT
								V		R		M	P	v	Y	ĸ	ĸ	A
V M		P	P	P	Q	G	A	٧	451		Α	**	•	•	•			
421/141 GAG CAT	. ~~~	.~	C) C	carr	~~~	***	CCN	mcc.			СЛТ	GAG.	CTYS.	ACC	ССТ	GAG	MC	እ <b>እ</b> ጥ
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481/161			000				~> m				COLV	~ 2 2	ccc	ח חכי	»cc	ርእፕ	CCC	CAG
GAG GGA									ATT	COA	V	g AA	C	N	S	н	A	Q
E G		I	A	P	P	S	н	L		к /191	V	Ε,	G	14	3	11	•	v
541/181 TAT OT:		a	~~~		100	~~~		a) c			~~~	CIT/C	CCT	משמים	GAG	CCA	CCA	CaG
										V		GIC.	P	v	E	P	P	Q
YV		D	Þ	Ι	Т	G	R	Q			ь	V	r	•	L	•	•	¥
601/201	l 	~						m> a		/211	N/C/C	₩~II	אאר	NCC.	300	TO C	CTC	CCA
GTT GGG												C	N	V.C.	S	C	v	G
V G		Ε	F	T	T	V	L	Y	N		PI	_	14	3	3	•	٠	•
661/22							. ~ -			/231	cma	CNN	300	303	CAM	ccc	~ A A	~~~
GGA ATY															D	G		V.
G M		R	R	P	I	r	I	I	-	T (251	L	E	T	R	ט	G	Q	V
721/241				-	~ ~				751.		m^_	CCN	CCA	ארא	CNC	ccc	770	CCA
CTG GGG													G		D	R	K	A
L G		R	C	F	E	A	R	I			С	F	O.	K				^
781/261							۵۱.		811.			^~	120	220	~~~	CAM	COR	N CYC
GAT GAI																D	G	ACG T
	D	S.	1	R	K	Q	Q	V	S		S	A	x	N	G	ט	G	•
841/281			ccm	~~~			a) c		871		2000	N COTS	mcc.	y mc	NAG.	מגג	ccc	אכא
AAG CGC															X	K	R	R
K R	₽	F	R	Q	N	T	H	G	I		M	T	5	I	•		K	A
901/301		~								/311		CO.	-20	.~	mna	CNC	300	mrc.
TCC CC																		
S P	ע	D	E	ь	L	Y	Г	P				K	E	T	Y	E,	M	L
961/32										/331								200
												~~~	~~~	~ ~ ~	300	N mo	CAA	
1. K	ATC	AAA	GAG	TCA	CTG	GAG	CTC	ATG	CAG	TAC	CLC	CCI	CAG	CAC	ACG	ATC		
	ATC I	AAA K	GAG E	TCA S	CTG L	GAG E	CTC L	atg M	Q	Y	L	CCT P	CAG Q	CAC H	ACG T	ATC	GAA E	
1021/3	F ATC I	ĸ	E	S	L	E	L	M	Q 105	Y 1/35:	L 1	P	Q	н	T	I	E	т
1021/3	F ATC I 41 G CAG	K CAG	E CAG	s CAG	L CAG	E CAG	L CAC	M CAG	Q 105 CAC	Y 1/35: ርፓል	L L CTT	P CAG	Q AAA	H CAG	T ACC	TCG	E ATG	T CAG
1021/3 TAC AG Y R	F ATC I 41 G CAG Q	K CAG	E CAG	S	L CAG	E CAG	L CAC	M CAG	Q 105 CAC H	Y 1/35: CTA L	L CTT L	P CAG	Q	H CAG	T	TCG	E ATG	т
1021/3 TAC AG Y R 1081/3	F ATC I 41 G CAG Q 61	K CAG Q	E CAG Q	s Cag Q	L CAG Q	E CAG Q	L CAC H	M CAG Q	Q 105 CAC H 111	Y 1/35: CTA L 1/37:	L L CTT L L	P CAG Q	Q AAA K	H CAG Q	T ACC T	TCG S	e atg m	T CAG Q
1021/34 TAC AGO Y R 1081/3 TCT CA	F ATC I 41 G CAG Q 61 G TCT	K CAG Q TCA	E CAG Q TAT	S CAG Q GGC	L CAG Q AAC	E CAG Q AGT	CAC H	M CAG Q CCA	Q 105 CAC H 111 CCT	Y 1/35: CTA L 1/37: CTG	L CTT L L L AAC	P CAG Q AAA	Q AAA K ATG	H CAG Q AAC	T ACC T AGC	TCG S ATG	E ATG M AAC	T CAG Q AAG
1021/34 TAC AGO Y R 1081/3 TCT CAO S Q	F ATC I 41 G CAG Q 61 G TCT S	K CAG Q TCA	E CAG Q TAT	s Cag Q	L CAG Q AAC	E CAG Q	CAC H	M CAG Q CCA	Q 105 CAC H 111 CCT P	Y 1/35: CTA L 1/37: CTG L	L CTT L L AAC N	P CAG Q AAA	Q AAA K	H CAG Q AAC	T ACC T	TCG S	e atg m	T CAG Q
1021/34 TAC AGG Y R 1081/3 TCT CAG S Q 1141/3	FATC I 41 GCAG Q 61 GTCT S	K CAG Q TCA S	E CAG Q TAT Y	S CAG Q GGC G	L CAG Q AAC N	E CAG Q AGT S	L CAC H TCC S	M CAG Q CCA P	Q 105 CAC H 111 CCT P 117	Y 1/35: CTA L 1/37: CTG L 1/39:	L CTT L L AAC N	P CAG Q AAA K	Q AAA K ATG M	H CAG Q AAC N	ACC T ACC S	TCG S ATG M	E ATG M AAC N	T CAG Q AAG K
1021/34 TAC AGO Y R 1081/3 TCT CAO S Q	FATC I 41 GCAG Q 61 GTCT S	K CAG Q TCA S	E CAG Q TAT Y	S CAG Q GGC G	CAG Q AAC N	E CAG Q AGT S	CAC H TCC S AAC	M CAG Q CCA P	Q 105 CAC H 111 CCT P 117 CAG	Y 1/35: CTA L 1/37: CTG L 1/39: CAG	L CTT L AAC N 1	P CAG Q AAA T	Q AAA K ATG M	H CAG Q AAC N	ACC T ACC S ACT	TCG S ATG M	E ATG M AAC N	T CAG Q AAG K



#### Figure 18 Cont.

1201/401 1231/411																				
ATG	CC1	GAG	GGC	ATG	GGA	GCC	AAC	ATT	CCT	ATG	ATG	CCC	ACT	CAC	ATG	CCA	ATG	GCT	GGA	
M								I	p		M		T		M		M	A	G	
1261	/42	1								129	1/431	L								
GAC	ATG	AAT	GGA	CTC	AGC	CCT	ACC	CAA	GCT	CTC	CCT	CCT	CCA	CTC	TCC	ATG	CCC	TCC	ACC	
D	M	N	G	L	S	P	T	Q	Α	L	P	P	P	L	S	M	P	S	T	
	1/44										1/45	_								
TCC	CAC	TGC	ACC	CCA	CCA	CCG	CCC	TAC	ccc	ACA	GAC	TGC	AGC	ATT	GTC	AGT	TTC	ATT	GCA	
S	H	С	T	P	P	P	P	Y	P	T	D	С	5	I	V	5	F	L	A	
1381/461											1/47:	_								
Agg	TCg	ggC	TGC	TCA	TCA	TGC	CTG	GAC	TAT	TTC	ACG	ACC	CAg	ggg	CTG	AcC	YCC	ATC	TaT	
R	L	G		s		С			Y		T				L	${f T}$	T		Y	
	1441/481										1471/491 GCa aGT CTG AAG ATC CCT GAA CAG TTC CG									
CAG	ATT	GAG	CAT	TAC	TCC	ATG	GAT	GAT	ΤζG	GÇa	agt	CTG	AAG	ATC	ccT	GAA	CAG	TTC	CGA	
Q	I	E	R	Y	s	M	D	D	L	A	S	P	K	I	P	E	Q	F	R	
1501/501										1/51	_									
CAT	GCC	ATC	TGG	AAg	GGC	aTC	CTG	Gλc	CAC	AGG	cAG	CTG	CAC	GAC	TTC	TCC				
Н	Α	I	VI	K	G	I	L	D	H	R	-		H	D	F	S	S	P	₽	
	1/52										1/53									
CaT	CIC	CIG	AGG	ACC	CCA	AGT					GTC									
	L		R	T	P	S	G	Α	S	_	V	_	V	G	S	S	E	T	R	
	1/54										1/55:									
GGT	GAA	CCT	OIG	ATC	GAT	GCC	GTG				CIC									
G	E	R	V	I	D	A	V	P.	F		L		Q	T	I	S	F'	Þ	P	
	1/56										1/57:	-		_						
CGT	GAC										GAT									
R	D	E	W	N	D	F	N	F	D	M	D	s	R	R	N	K	Ç	Q	R	
	1/58																			
aTC		_	-		GAA															
I	K	E	E	G	E	*														



1/1									31/3									
ATG TTG	TAC	CTG	αλλ	AAC	АЛТ	GCC	CAG	ACT	CAA	TTT	AGT	GAG	CCA	CAG	$T\lambda C$	ACG	AAC	CTG
	Υ						Q	Т	Q	F	S	E	₽	Q	Y	T	N	L
61 /21	-								91/3	31								
GGG CTC	CTG	AAC	AGC	ATG	GAC	CAG	CAG	ATT	CAG	AAC	GGC	TCC	TCG	TCC	ACC	VCC	CCC	TAC
G L		N			D	Q	Q	I	Q	N	G	S	S	S	T	S	P	Y
121/41									151/									
Aac ACA	GAC	CAC	GCA	CAG	AAT	AGC	GTG	ACG	GCG	CCC	TCG	CCC	TAT	GCA	CAG	CCC	AGC	TCC
N T	D	Н	Α	Q	N		V	$\mathbf{T}$	A	P	S	P	Y	A	Q	Þ	S	S
181/61									211/	/71								
ACC TTT	GAT	GCC	CTC	TCT	CCA	TCC	CCT	GCC	TTA	CCC	TCC	AAC	ACA	GAT	TAC	ÇCG	GGC	CCA
T F	D	A	r	S	P	S	P	A		P		N	T	D	Y	P	G	P
241/81									271/	/91								_
CAC AGO	TTC	GAT	G/TG	$\mathfrak{ICC}$	TTC	CAG	CAG	TCA	AGC	ACT	GCC	AAG	TCA	CCC	ACC	TGG	ACG	TAT
H S	F	D	Ÿ	S	F	Q	Q	S	s		Α	К	S	A	T	W	T	Y
301/101			•							/111					÷			
TCC ACC	GAA	CIG	λλG	AAG	CTG	TAC						ACA	TGC	CCC	ATC	CAG	ATC	AAG
s T	E	L	K	K	L	Y	C	Q		Α	K	T	С	P	I	Q	Ţ	ĸ
361/121									391/	/131	~~~	3.00~	~~	CTC	ma.c	N N C	**	con
GTG ATG									ATC	CGT	GCC	M	b CC1.	V	Y	K	K	y CCT.
V M	-	P	Р	Þ	Q	G	A	V	I		A	rı	P	٧	I		~	^
421/141 GAG CAT							~~`	mca.		/151	C N T	CNC	cav:	D.C.C.	CCT	GNG	יועיירי	አስጥ
								C	5		Н	E	L	S	R	E	F	N
E H	v	T	E	V	V	K	R	C		/171	11	ы		3	• `	_	-	••
481/161 GAG GGA	C) C	3 777		com	ccc	ъ¢æ	ርእጥ	CTC			ATC)	σλλ	GGG	AAC	AGC	СУТ	GCC	CAG
E G		I	A	P	p	S	H	L	Α11	R	v	E	G	N	S	н	A	0
541/181	Q	1	Λ	r	P	3	11	LJ.	_	/191	•	~	•		_			_
TAT GTA	CYV	CAT	CCT	እጥ	)CG	CCA	ACC.	CAG			CTG	GTC	CCT	TAT	GAG	CCA	CCA	CaG
Y V		D	P	I	T	G	R	0	5	v	t.	v	P	Y	E	P	P	0
601/201	_	ט	F	-	•	G		¥		/211	_	•					-	_
GTT GGC	• ACT	GAA	ጥጥር	ACA	ACA	CTC	СТС	TAC			ATG	TGT	AAC	AGC	AGC	TGC	GTC	GGA
V G		E	F	T	T	v	L	Ϋ́		F			N	s	S	С	v	G
661/221		_	•	•	•	•	_	-	-	/231								
GGA ATO		AGA	CoT	CCA	АТТ	TTA	ATC	ATC			CTG	GAA	ACC	AGA	GAT	GGG	CAA	gTC
G M		R		P	r	L	I	I	v		L	E	T	R	D	G		v
721/241										/251								
CTG GGC	CGA	CGG	TGC	TTT	GAG	GCC	CGG	ATC	TGT	GCt	TGC	CCA	GGA	AGA	GAC	CGG	AAG	GCA
L G		R		F	E	Α	R	I		Α	С			R	D	R	K	Α
781/261										/271								
GAT GAA	. GAC	AGC	ATC	AGA	AAG	CAG	CAA	GTA	TCG	GAC	AGC	GCA	aag	AAC	GCC	GAT	CCT	ACG
D E	D	S	I	R	K	Q	Q	V	S	D	S	A	K	N	G	D	G	T
841/281										/391								
AAG CGC	CCT	TTC	CGT	CAG	TAA	ACA	CAC	GGA			ATG			ХTС				
KR	P	F	R	Q	N	T	H	G	I		M	T	S	I	X	K	R	R
901/301										/311								
TCC CCA																		
S P		D	E	r	L	Y	Ŀ	P			G	R	E	T	Y	E	M	L
961/321										/331								
CIG AM	ATC	AAA	GAG															
L K		к	E	S	L	E	L	M				P	Q	H	T	I	E	T
1021/34								<b>.</b>		1/35		<b>~</b> •		C1.C	3.00	m~~	3000	0).0
TAC AGO	CVC																	
Y R 1081/38		Ų	Ų	Q	Q	Q	н	Q				Q	Y	Q	T	S	M	Q
			m	~~-			m~~			1/37			3 m-	» » ~	200	>m~	,	220
TCT CAC																		
S Q 1141/38	. S	2	I	G	И	S	۵	P				,K.	t.	74	5	M	И	v
		· ~~~	300	030	~~~					1/39		3 5 00	000	~~~	2 ~~~	000	200	200
CIG CCI																		
ے د	S	V	S	Q	L	I	N	P	Q	Q	R	N	A	L	T	₽	T	T



#### Figure 19 Cont.

120	L/401	l							1231/411											
ATG	$\operatorname{CCT}$	GAG	GGC	ATG	GGA	CCC	AAC	ATT	CCT	ATG	ATG	CGC	ACT	CAC	ATĢ	CCA	ATG	GCT	GGA	
M	P	E	G	M	G	Α	N	I	P	M	M	G	T	н	М	P	М	A	G	
126		1291/431																		
GAC	ATG	AAT	GGA	CTC	AGC	CCT	ACC	CAA	CCT	CTC	CCT	CCT	CCA	CIC	TCC	ATG	CCC	TCC	ACC	
D	M	N	G	L	S	P	T	Q	Α	L	₽	P	P	L	S	M	P	S	T	
132	1/44	1.								1351/451										
TCC	CAC	TGC	ACC	CCA	CCA	CCG	CCC	$T\lambda C$	CCC	ACA	GAC	TGC	AGC	ATT	GIC	AGG	TTA	tGG	Caa	
\$	н	С	T	P	P	P	P	Υ	p	T	D	C.	\$	I	V	R	I	W	Q	
138	1381/461																			
CIC	TGA																			
ν	*																			



```
31/11
ATG TIG TAC CTG GAA AAC AAT GCC CAG ACT CAA TTT AGT GAG CCA CAG TAC ACG AAC CTG
MLYLENNAQTQFSEPQYTN
                             91/31
GGG CTC CTG AAC AGC ATG GAC CAG CAG ATT CAG AAC GGC TCC TCG TCC ACC AGC CCC TAC
G L L N S M D Q Q I Q N G S S S T
                             151/51
121/41
AAC ACA GAC CAC GCA CAG AAT AGC GTG ACG GCG CCC TCG CCC TAT GCA CAG CCC AGC TCC
NTDHAQNSVTAPSPYAQPS
                             211/71
181/61
ACC TIT GAT GCC CTC TCF CCA TCC CCT GCC ATT CCC TCC AAC ACA GAT TAC CCG GGC CCA
T F D'A L S P S P A I P S N T D Y P G P
                             271/91
241/81
CAC AGC TTC GAT GTG TCC TTC CAG CAG TCA AGC ACT GCC AAG TCA GCC ACC TGG ACG TAT
H S F D V S F Q Q S S T A K S A T W
                             331/111
TCC ACC GAA CTG AAG AAG CTG TAC TGC CAG ATT GCG AAG ACA TGC CCC ATC CAG ATC AAG
STELKKLYCQIAKTCPIQ
                             391/131
361/121
GTG ATG ACC CCA CCC CCA CAG GGC GCT GTT ATC CGT GCC ATG CCT GTC TAC AAG AAA GCT
V M T P P P Q G A V I R A M P V Y K K A
                             451/151
CAG CAT GTC ACC GAG GTT GTG AAA CGA tGC CCT AAC CAT GAG CTG AGC CGT GAG TTC AAT
EHVTEVVKRCPNHELSREFN
481/161
                             511/171
CAG GGA CAG ATT GCC CCT CCC AGT CAT CTG ATT CGA GTA GAA GGG AAC AGC CAT GCC CAG
E G Q I A P P S H L I R V E G N S H A Q
                             571/191
TAT GTA GAA GAT CCT ATC ACG GGA AGG CAG AGC GTG CTG GTC CCT LAT GAG CCA CCA CAG
Y V E D P I T G R Q S V L V P Y E P P
                             631/211
601/201
GTT GGC ACT GAA TTC ACA ACA GTC CTG TAC AAT TTC ATG TGT AAC AGC AGC TGC GTC GGA
V G T E F T T V L Y N F M C N S S
                             691/231
661/221
GGA ATG AAC AGA CGT CCA ATT TTA ATC ATC GIT ACT CTG GAA ACC AGA GAT GGG CAA GTC
G M N R R P I L I I V T L E T R D G Q V
                             751/251
721/241
CTG 9GC CGA CGG TGC TTT GAG GCC CGG ATC TGT GCT TGC CCA GGA AGA GAC CGG AAG GCA
                                        GRDRKA
LGRRCFEARICACP
                             811/271
781/261
GAT GAA GAC AGC ATC AGA AAG CAG CAA GTA TCG GAC AGC GCA AAG AAC GGC GAT GCT TTC
D E D S I R K Q Q V S D S A K N G D A F
                             871/291
841/281
CGT CAG AAT ACA CAC GGA ATC CAG ATG ACT TCC ATC AAG AAA CGG AGA TCC CCA GAT GAT
RQNTHGIQMTSIKKRRSPDD
                             931/311
901/301
GAG CTG CTG TAC CTA CCA GTG AGA GGT CGT GAG ACG TAC GAG ATG TTG CTG AAG ATC AAA
E L L Y L P V R G R E T Y E M L L K I K
                             991/331
961/321
GAG TCA CTG GAG CTC ATG CAG TAC CTC CCT CAG CAC ACG ATC GAA ACG TAC AGG CAG CAG
                                     I E T Y R Q Q
ESLELMQYLP
                             Q H T
                             1051/351
1021/341
CAG CAG CAG CAC CAG CAC CTA CTT CAG AAA CAT CTC CTT TCA GCC TGC TTC AGG AAT
QQQQHQHLLQKHLLSACFRN
1081/361
                             1111/371
GAG CTT GTG GAG CCC CGG GGA GAA GCT CCG ACA CAG TCT GAC GTC TTC TTT AGA CAT TCC
ELVEPRGEAPTQSDVFFRHS
1141/381
AAC CCC CCA AAC CAC TCC GTG TAC CCA TAG
N P P N H S V Y P *
```



Figure 21

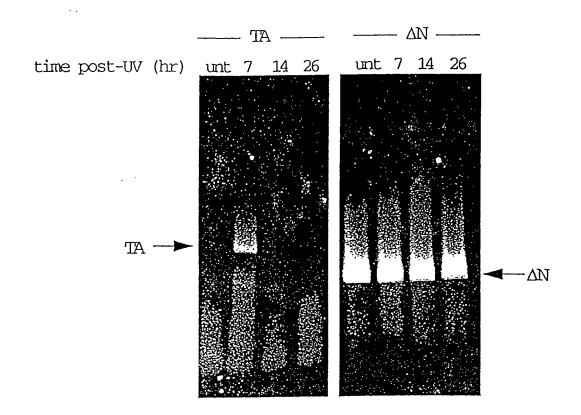


Figure 22

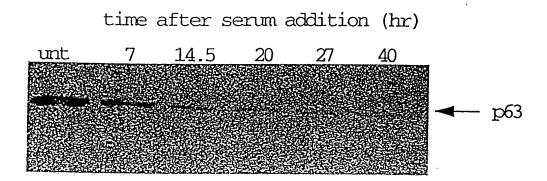




Figure 23

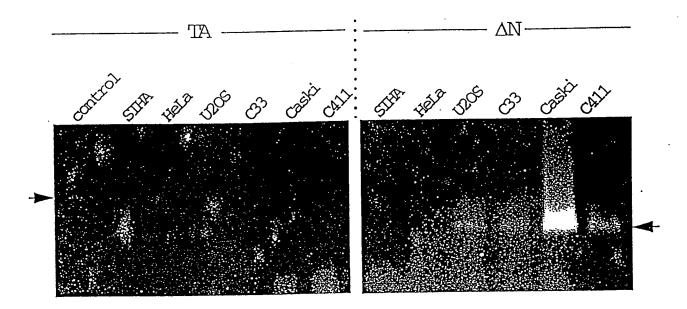




Figure 24

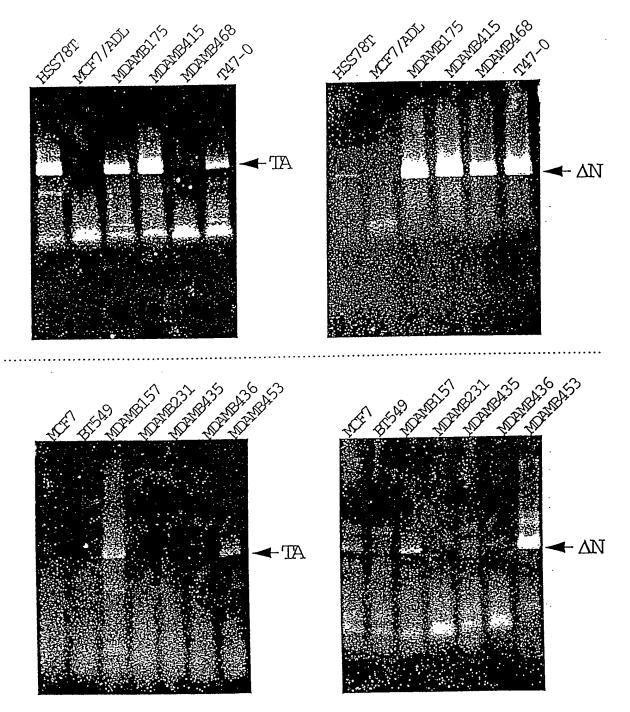




Figure 25

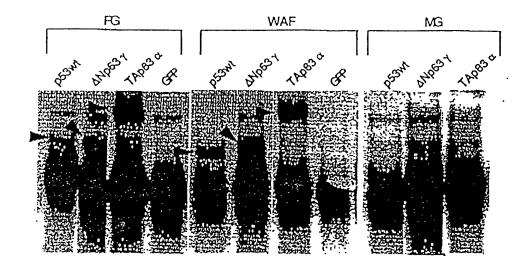
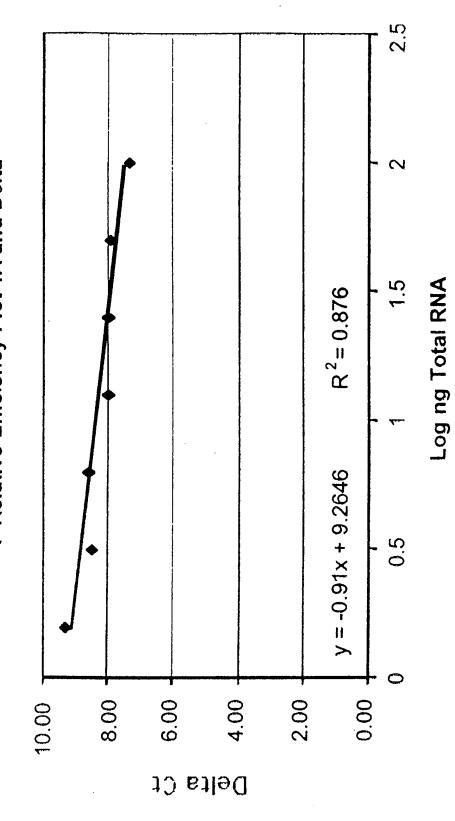




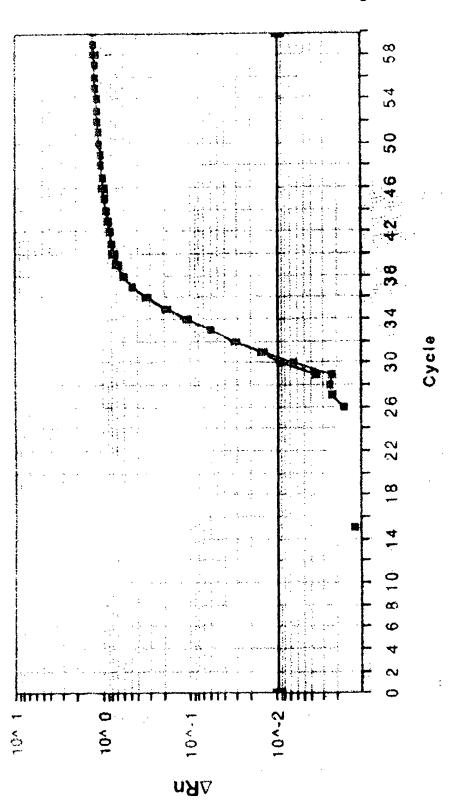
Figure 26



. Relative Efficiency Plot TA and Delta

Figure 27A

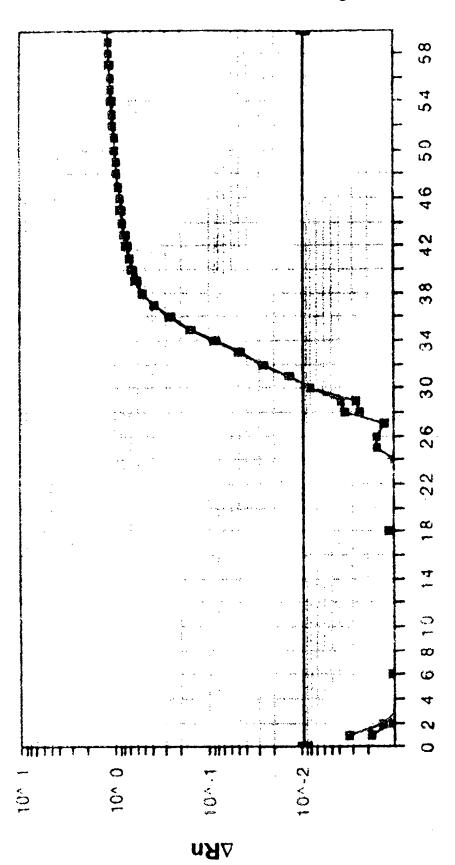
A. TAp63 amplification plot for PrEC cells





B. TAp63 amplification plot for PC3 cells

Figure 27B

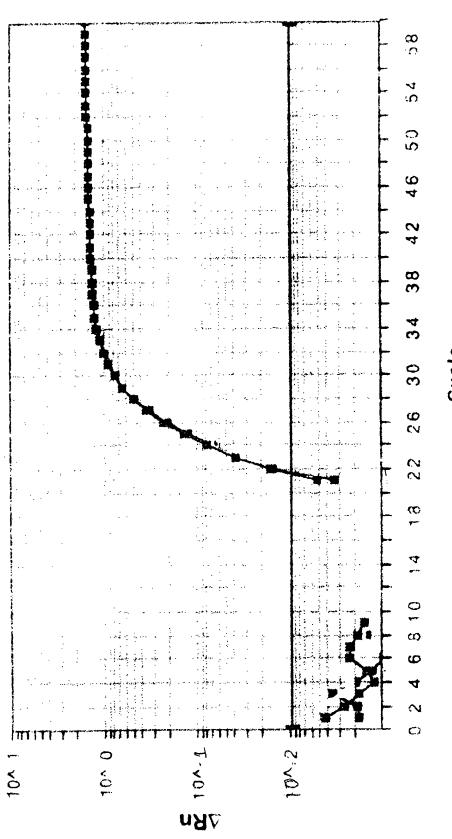


\ YC18



C. ANp63 amplification plot for PrEC cells

Figure 27C



ycle

D. △Np63 amplification plot for PC3 cells

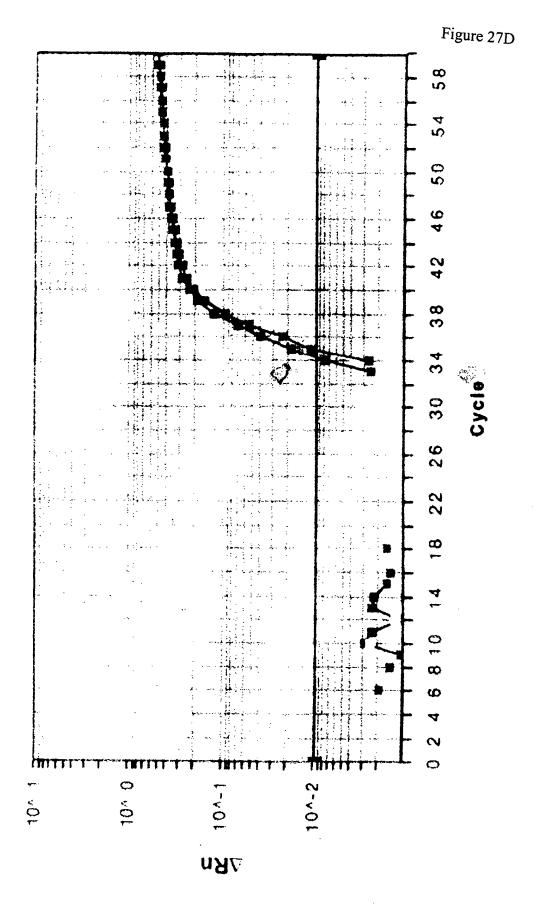
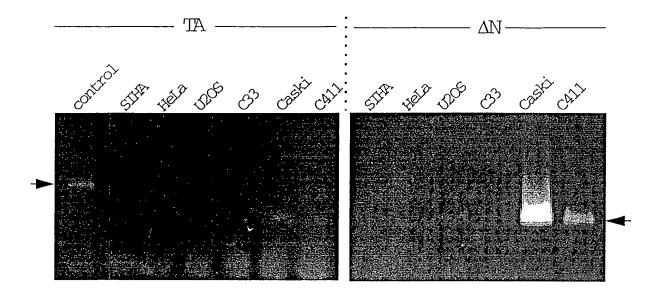




Figure 28



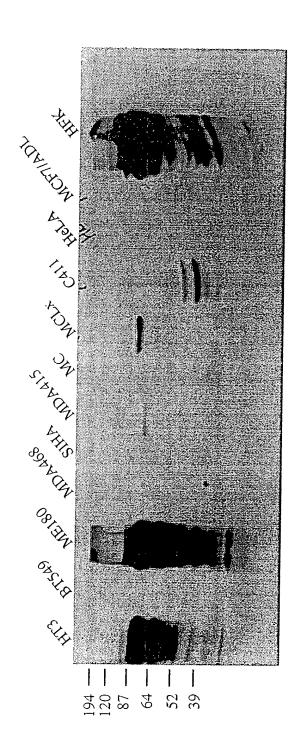
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1000



4A4 anti-p63



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